

SELF STUDY REPORT (SSR)
For REACCREDITATION
(Third Cycle)

Submitted to

National Assessment and Accreditation Council - Bangaluru, India



By

GOVT. V.Y.T.PG. AUTONOMOUS COLLEGE, DURG, CHHATTISGARH

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PREFACE

Govt. Vishwanath Yadav Tamaskar Post Graduate Autonomous College, Durg is a leading institution, that pioneered the dawn of higher education in this backward part of Chhattisgarh during the early decades of post-independence era. It holds a distinguished history which is best reflected in the recognition and reputation it has earned over the period of time. This can not be narrated through the language of data and words. The transformation it has brought about and an ambience of learning and wisdom it has created in the society by disseminating knowledge and awareness through education over the past 58 years has proved to be instrumental in the socio-cultural evolution of this region. Probably the journey towards excellence, it has been going through, could never be appraised in tangible expressions. The Self Study Report, being submitted to NAAC is a humble effort to retrospect, in some other way, the course of journey towards the destination that the institution has arrived at this point of time. The present account is exclusively focussed on various activities carried out by the institution in the preceding five years.

Conforming to the emerging circumstances of economic and socio-cultural integration and consequent restructuring of value system at the global level, the higher education in the country is undergoing modification in a decisive way, experiencing a new trend of structural adjustments initiated by information explosion and technological revolution. This has led to a major paradigm change in the value organization and strategic planning of higher education system. Although implicit goals of education such as national development and character building remained intact, new dimensions like preparing the students for cut-throat competition and exploiting the cutting edge technology in the learning endeavours have been opened in its quest for excellence.

In a bid to get attuned to societal changes associated with the emerging info-sphere and techno-sphere, the college had to adapt to them and to trigger corresponding changes in terms of curricula, teaching methodology, infrastructure, research, extension and governance. The kind of changes that has occurred in the past few years has made the institution to rediscover its potential and redefine its role in the society to become more-and-more relevant with the passage of time. This Self Study Report, puts forth an introspective narrative of both success and failure of the institutional functioning all through these years.

Being a state government institution it has certain advantages and few limitations as well. But all the time it strives to serve the under-privileged and subaltern majority living around. With this objective it imparts quality education to the disadvantaged sections of society at minimum cost, which itself is an act of philanthropy and compassion it is practicing since the early

formative years. Providing a cost effective education at this point of time it is not an easy task since

privatization, posing a big challenge, has become the order of the day in all walks of life including knowledge and education.

The SSR drafting committee with the whole-hearted support of the faculty members has made sincere and honest efforts in preparing the report to the best of my knowledge. Teeming and spirited the team has shouldered the responsibility to make diligent efforts in compiling academic and non-academic activities. I express my heartfelt gratitude to the NAAC Steering Committee, SSR Drafting Committee, all the faculty members and administrative staff and other stakeholders for their unwavering support.

Date: 29.08.2016

Dr. Surendra Kumar Rajput
Principal

ABOUT THE COLLEGE

Government Vishwanath Yadav Tamaskar Post-Graduate Autonomous College, Durg is a leading higher education institution in Chhattisgarh. It is affiliated to Pandit Ravishankar Shukla University, Raipur. The college has been conferred with the status of autonomy by the UGC in 1989. The college accredited with grade 'A' by NAAC in second cycle, and has been recognized by UGC as '**College with Potential for Excellence**' (CPE), receiving the grant under IIIrd Phase of the scheme. Five departments from faculty of Science and one from Social Science have been identified by UGC under CPE scheme as highly rated departments. The institute has been shortlisted and recognized under **DBT Star College Scheme** by the Department of Biotechnology (DBT) Govt. of India. Under this scheme 6 departments from faculty of Science have been selected for providing financial support. The department of Chemistry was recognized under **Funds for improving Science and Technology Infrastructure (FIST)** Scheme by department of Science and Technology, Govt. of India. The college has the distinction of being one of the 20 prominent institutions across the country to have been selected for providing suggestions on **National Higher Education Qualification Framework (NHEQF)** of India.

The college offers UG and PG courses in Science, Arts and Commerce streams. Equipped with 21 teaching departments, including 16 PG departments, and 104 faculty members, it has 14 departments as recognized research centres, namely Hindi, English, History, Political Science, Sociology, Economics, Commerce, Physics, Chemistry, Botany, Zoology, Geology, Mathematics, and Biotechnology department. Department of Physics, Chemistry, Maths, Botany, Microbiology, Biotechnology, Geology have research collaborations with national & international institutes of high repute. Many of the departments render paid as well as free consultancy services for sharing their knowledge resources for the benefit of institutions and society. The college houses study centres of IGNOU and Pt. Sundarlal Sharma Open University. The college had a humble start with just two rooms that housed Arts and Science faculty, at the local *Hindi Bhawan*. The foundation stone of the present building was laid by the then Chief Minister of Madhya Pradesh Dr. Kailash Nath Katju in November, 1958. It was shifted to its present site, campus of 21.75 acres, in 1962. Since then the college is continuously growing in terms of infrastructure and learning resources in its journey towards excellence.

At the time of independence Durg was a backward district, with a diverse demographic composition, consisting mostly of OBC, SC and tribal

population. The district was backward in terms of educational, industrial and economic development. In the post-independence era, new avenues of development were opened with the beginning of industrialization in the region. An integrated steel plant, biggest of its kind in Asia, was founded with the support of USSR. During the same period higher education was introduced in the region with inception of Govt. Arts and Science College, Durg in August 1958. Later on the college was renamed after late Shri Vishwanath Yadav Tamaskar, an eminent politician and freedom fighter from this region.

The college served as a major resource to provide man-power to Bhilai Steel Plant. This led to a breakthrough in socio-economic transformation of this region. Presently the college is one of the biggest Govt. Colleges in Chhattisgarh, a **Lead College*** of Durg district that provides administrative and academic support and guidance to 56 colleges of the district. The college has student strength of 4326 in the current session. It holds the unique opportunity of being a mixed bowl of urban, tribal & rural students, majority of them being first generation learners. **The college, since its inception, is serving the society in a significant way by providing higher education to first generation learners.** This is a distinctive feature of this institution.

This institution holds high repute in the field of academics as well as in sports. A large number of students from this college are holding prestigious and distinguished positions. Many of them are serving the society with their significant contribution in the field of administration, public services, education, art and literature, sports, business and entrepreneurship.

Keeping pace with the challenging need of the day the college has undergone major paradigm shift in terms of pedagogical methodology, from conventional ways of teaching to ICT enabled teaching. It has successively established smart classrooms, provided with Wi-Fi connectivity and computerized library to encourage effective teaching and learning.

The college is moving forward with a multi pronged strategy towards excellence with a view to come out as an institution of the future that prepares the students equipped with knowledge, skill, aptitude and social commitment.

* The Department of Higher Education, Govt. of Chhattisgarh has identified this institution as Lead College of District Durg to mentor and monitor academic and administrative functioning of other govt. and non-govt. colleges in this region.

EXECUTIVE SUMMARY

Criterion I: Curricular Aspects

The College strives to achieve excellence in teaching, learning and research. To a large extent, the drive for academic excellence is accomplished through curriculum development and is in tune with the vision and mission of the institution.

The significant dimension of curriculum design is to *‘empower the youth, especially belonging to the underprivileged sections of society, providing them quality education, inculcating philanthropic values and enabling them to meet the challenges of the contemporary & knowledge-society’*. The college offers programmes in Arts, Science, Commerce and Library and Information Science. A few job oriented self financing courses have also been included in the curricula. There are 10 subjects in 20 combinations available for the degree of B.A., 12 subjects in 12 combinations for the degree of B.Sc. and 02 combinations for the degree of B.Com. alongwith B. Lib.& I.Sc. course. ‘Environmental Studies and Human Rights’ is included as a compulsory subject in first year of undergraduate programme. The institution offers 07 Post graduate courses in Humanities and Social Sciences, 08 courses in Natural and Applied Sciences and 01 course in Library & Information Science. A PG Diploma course is available in Computer Applications. Project based course work is essential component of the curriculum at Post graduate level. Bridge course is included in BCA for students having no background of Mathematics.

The college offers self financing courses both at UG and PG levels. Altogether, 09 courses at UG, 03 at PG and one PG Diploma are being run under self financing scheme. Proposal for five new programmes are submitted to the Department of Higher Education Govt. of Chhattisgarh. All UG programmes are being run on annual system and PG programmes on semester system.

The college follows the syllabi designed and approved by the Central Board of Studies and prescribed by the parent University in UG courses. For the PG programmes the departments formulate their own syllabi based on UGC model curricula. The syllabi are reviewed and approved by the members of Board of Studies of respective departments involving various stakeholders including student representatives and subjects experts nominated by the Vice Chancellor of the University and the Principal of the College.

The college has introduced new courses in Library Science both at UG (B.Lib &I.Sc.) and PG (M.Lib & I.Sc) levels. Fourteen departments of the college are recognized as research centres by the University which has authorized 38 faculty members as research supervisors in various disciplines.

Students’ involvement in extra- curricular activities is ensured through NCC, NSS, Youth Red Cross Society and other agencies. Industrial visits, dissertation projects, excursions and study tours are regularly carried out in

various departments as part of curriculum. The faculty members participate in workshops, seminars and conferences at various levels so that they may get well acquainted with contemporary developments to acquire latest information concerned with respective domains which could be deployed in updating the curricula in such a way that it could be compatible enough to meet the societal challenges.

Feedback received from students, examiners and suggestions given by the subject experts play major role in curriculum development procedure. Some departments have done significant curricular reforms during last 2-3 years. Value added and skill development activities are regularly practiced in the college. Departments and various committees equally monitor such activities throughout the year.

Criterion II: Teaching-Learning and Evaluation

The college being one of the leading institutions that admits students from all sections of society. Following the policies stated by the Department of Higher Education, Government of Chhattisgarh, it makes the procedure of admission transparent and student friendly.

The admissions to various classes / programmes are made in accordance with the procedures prescribed by the State Government and Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. Due publicity of the admission programme is made by displaying detailed notifications of admission programme on college notice boards as well as on the website of the college (www.govtsciencecollegedurg.ac.in) ahead of the schedule. This helps the prospective candidates to gain easy access to the admission process. Online admission form-filling facility as well as declaration of merit list on college website/notice boards helps in maintaining transparency.

On the campus, counselling is provided to all the candidates. A Help desk and Reception counter is available for all the students. Help desk works round the clock during the admission period at a prominent location on the campus in the administrative block. Help and assistance is offered to all the students in selection of subjects with special attention being given to socially and differently abled.

The interactive and participatory teaching learning pedagogies implemented in the college make it different from other institutes. The admitted students represents heterogeneous , multicultural background and over the last five years there is remarkable increase in the number of SC, ST, OBC, Minority and girl students though merit is the main criterion for admission.

The college has made efforts to shift the balance of higher education from the ‘teacher-centric education’ to ‘student-centric education’, by supplementing the traditional learning practices, with the use of innovative learning techniques. This is made possible by:

- (a) **conducting** special classes for the slow learners so as to bring them on par with the fast learners.
- (b) **helping** the academically disadvantaged students by arranging revision lectures and practical.
- (c) **challenging** advanced learners to work ahead of the rest by involving them in research oriented activity and carrying out surveys, data collection and analysis.
- (d) **enhancing** learning experiences of students through the activities organized by subject associations such as group discussions, guest lectures, study tours, lecture/essay/poster competitions, 'Wall Magazines' weekly quiz questions. More emphasis has been placed on learning skills such as conducting surveys on social issues, data collection and presentation.
- (e) **making** the learning process more interactive and dynamic with greater participation of students through role play, display of subject related video films, brain storming, group discussion etc.
- (f) **supplementing** lectures with various teaching aids, such as demonstration apparatus, models, charts, slides and use of ICT. Teachers have developed their own e-resources in some subjects. This is available to students free of cost.
- (g) **enhancing** communication skills through language laboratory.
- (h) **taking** initiatives to enhance infrastructural facilities, facilitating adoption of ICT enabled teaching learning methods.
- (i) **giving** extra weightage in admission to outstanding achievers in sports and extracurricular activities.
- (j) **organizing** mentoring programmes in order to ascertain the student's academic progress and monitor issues arising from personal problems on a regular basis.
- (k) **encouraging** brilliant students to appear in competitive examinations and research programmes.
- (l) **fostering** teachers/students excellence through seminars/workshops/training programmes /capacity building programmes.
- (m) **promoting** research activities in the institution. At present college has 80 regular faculty members, out of which 65 are Ph.D degree holders, where as 06 faculty members are pursuing their research work for doctoral degree.
- (n) **motivating** students and faculty members to engage in activities ranging from attending seminars, conferences, symposia, presenting research papers and publishing research articles in peer reviewed journals.
- (o) **carrying** out continuous evaluation through annual, term end, terminal and model examinations. For UG and PG classes 20% internal marks are allotted. The internal assessment includes two internal tests, class performance, seminars, assignments, surprise tests. Projects and dissertations are also used effectively for student's evaluation.
- (p) **conducting** evaluation in a systemized way. Controller of Examination with adequate staff conducts and monitors the examination process of the college. The college strictly follows examination rules, schedules and

announces results within 21 days from the last day of examination. Adequate precautionary measures are taken to ensure that the evaluation is objective and systematic. As per the rules of affiliating university, provision is made for photocopy of answer book, re totaling and revaluation at undergraduate level on request

Criteria III: Research, Consultancy, Extension and Collaborations

The institute has excelled in the field of research, consultancy, extension and collaboration remarkably in the last five years. Our faculty have organized 58 National and International Conferences, successfully completed 41 major and minor research projects. They have published 16 Books and contributed in edited works of various journals apart from acting as members of Editorial Boards of 24 journals. Our faculty have participated in 780 Seminars, Symposia and Conferences and published 536 research papers in peer reviewed high impact factor journals. 221 research students have been enrolled in last five years under the supervision of 38 research guides for pursuing their Ph.D. Faculty have also signed and are working under purview of 06 MoUs and 06 foreign visits.

The research scholars have bagged a number of fellowships conferred by various agencies viz.-- DST-Women Scientist Fellowship, UGC-Post Doctoral Fellowship, Maulana Azad Fellowship, Rajiv Gandhi National Fellowship, Indira Gandhi Single Girl Child Fellowship, CSIR-UGC-NET-JRF Fellowship, GATE and Fellowship of Biotech Consortium of India Limited. At state level also they have awarded with **Young Scientist Award**, Best Paper Presentation Award etc. The college is solitary institution amongst hundreds of colleges in Chhattisgarh and M.P. selected under **Star College Scheme** by Deptt. of Biotechnology, Govt of India.

Various honours and fellowships have been conferred to 20 faculty members by different academic bodies viz. Ambedkar Award, Women Empowerment Award, Dr. Sarvapalli Radhakrishnan Award, Dr. D.K. Belsare Gold Medal and Rajiv Gandhi Excellence Award etc. They are actively working in collaboration with various National and International organizations namely– University of Sophina (Bulgaria), University of Dhaka (Bangladesh), Tribhuvan University, Kathmandu (Nepal), University of South Pacific, Suva (Fiji), Texas A & M University, Pretoria University (South Africa), IIT Kharagpur, IIT Bombay, South Korea University, Delhi University etc. Initiatives for interdisciplinary research has been quite fruitful and Departments of Botany, Physics, Microbiology, Chemistry and Biotechnology have come together to work on various projects in the field of nanomaterials synthesis and characterization, Phytochemical Characterization of various medicinal plants by HPLC Technique, Gene Polymorphism among Sickle Cell Patients, G-6-PD Deficiency and frequency of Chemokine receptors among

HIV patients by RT-PCR, Micro propagation of Medicinal Plants, Antioxidant Analysis of Medicinal Plants etc.

Moreover, the introduction of project based learning in the curriculum of post graduation has initiated a new zeal in our students towards research. The projects are prepared under the supervision of faculty members, on thoughtful topics, which not only gives an in-depth knowledge of the subject but also creates profound interest in the subject. To top it all the research done during the project work is published in national and international journals, showing the quality of work being done here.

The linkages and collaborations developed during last five years have certainly contributed in enhancing the quality of research. The faculty members are collaborating with IITs, IISc, and Universities throughout the country. A few international collaborations have also been established in recent years.

Under UGC sponsored CPE programme the departments of Physics, Chemistry, Geology, Zoology and English have been identified as **Highly Rated Departments**. The Department of Sociology too has been added and recognized as **Highly Rated Department** under CPE phase III for noteworthy performance in academics.

The 'Committee for Industry-Academia Collaboration' (CIAC) has been established in 2015 and as its flagship programme it was instrumental in signing a MoU with the SINE, IIT Bombay for a long term collaboration in the field of solar training and research. CIAC has organized an awareness programme for the 'Possibilities of Employment in Solar Energy', along with a two-day basic solar training programme. In future the college intends to collaborate with nearby industries to provide on-the-job training and internship opportunities to students.

The extension activities that took place in last five years had clear focus on mentoring of schools in the neighborhood, environmental awareness and depiction of institutional social responsibilities. The college has adopted a nearby village 'Thanaud' and is working in close collaboration with the village panchayat on various development projects and awareness campaigns. The NGO *Jan Unmayan* is providing merit scholarships to bright students and free coaching to the students for UPSC/PSC exams.

The nearby schools, which do not have adequate infrastructure and teaching staff, have also been taken into consideration by the institution. The faculty members and PG students voluntarily teach in a few such schools. The visits of school students to the computer lab are being organized every year to help them learn basic computer operations. The department of Chemistry frequently organizes lab visits of school students from different schools to update them with the new experiments in chemistry. Recently the school teachers were updated and trained for adopting new teaching methodologies under DBT Star College Scheme. The academic societies of various departments along with NCC, NSS and Youth Red Cross have organized awareness camps on a wide variety of subjects like voter awareness, anti-

tobacco, pollution, national integration, Digital India, Anti polythene, Health and Hygiene etc.

Criteria IV: Infrastructure & Learning Resources

The Institute has adequate infrastructure with 52 well ventilated classrooms. Twenty two under graduate and post graduate laboratories available for practicals. Many laboratories have been upgraded since last three years with advance equipments. There is one Central Instrumentation research laboratory in advanced research equipments. Three smart class rooms are newly constructed. Research laboratories in the department of Physics, Chemistry, Botany, Zoology, Microbiology and Bio-Technology with advanced research equipments are available in the college. There is well equipped Computer laboratory with 95 computers out of which 52 computers are connected in LAN to cater to the needs of B.Sc. Computer Science, B.Com Computer Application, PGDCA, BCA and other courses. Internet facility is available in all the departments. The entire campus is equipped with Wi-Fi and NME/ICT connections are available in 10 departments including Central Library. All the departments are well equipped with modern teaching aids.

The 50 seater Girls Hostel is nearly on completion. On the other hand expansion of 100 seater boys hostel is in progress. Fourteen new class rooms and one computer laboratory is under construction. Audio-Visual and Seminar halls are utilized to organize a range of activities and events. The Girls common room has been well furnished and improved with desired facilities. The infrastructure in the Central Library is exemplary. There are over 99,000 books and journals in the library. N-LIST facility is also available, OPAC software is used for transactions. For researchers and faculty, reference and research section is available. Examination control room and Autonomy Cell are equipped with security systems.

In the last five years the sports facilities for both, indoor and outdoor sports, like Cricket, Volley ball, Basket ball, Kho-Kho, Badminton, Table Tennis, Boxing etc. have been provided by the institute. For monitoring and security purpose of the entire campus, CCTV cameras are available. Computerized office section with reprographic facilities for various administrative activities and documentation, LFD display system and touch screen display for information and notifications, SMS alert system for all kinds of information to students, parents and faculty members are available in the college.

Criteria V : Student Support and Progression

The College has a well defined and independent system for student support and mentoring. The system works in close association with all the stakeholders to ensure all round development of the students. The Parent Teacher Student Association (PTSA) has been formed where teachers are

assigned 30 to 40 students and act as mentors to them. The teachers as guardians are responsible and accountable for the welfare of their students. Students belonging to Naxal affected areas are also being given admission to the college and all necessary facilities are being provided to them with special focus on sensitive dealing and personal counselling of such students. *Jan Unnayan*, an NGO formed by the Professors in the year 2011 is involved in providing financial help and coaching classes for competitive exams to students from the weaker sections of society. Student Union, an elected body that represents students and bridges the distance between administration and students is also in place. A registered Alumni body is also in existence that assists the institution via feedbacks and financial aids.

Various committees have been formed to coordinate student support mechanisms such as Training and Placement cell, Skill Development Scheme Committee, Committee on “Industrial – Academia” Collaboration, Grievance Redressal Cell, Anti –Ragging committee, Committee on Atrocities against Women, College Magazine and Newsletter Committees, Sports and Cultural activities Committees and many more.

The College also has formed a film Society called “*Chhayapat*” for students. It is a platform to arrange shows of international award winning films and other socially and artistically relevant films for students and to widen their perspectives on socio-cultural issues.

The College has also been publishing its Annual Magazine “*Vyanjana*” and the Department of Mathematics has been publishing its in-house magazine “*Ganit Suman*” where students contribute articles, short stories, poetry and review articles etc. The College is in the process of publishing Peer reviewed research journal “*Research Expressions*” that has been issued an ISSN number and students, research scholars and staff would be able to contribute quality papers.

Apart from these efforts, the College has had a prime focus in recent years on fostering Entrepreneurial skills and Self Help abilities amongst students. Various activities by departments and Placement Cells have been made to engage students in this direction. Workshops on Entrepreneurial skills such as “*Trividha : bhavishya ki or*”, “Ethical Hacking”, “Solar Training Programme, National Youth Development Entrepreneurial Training Programme”, “Replica making of ancient figurines” have been conducted to help students explore new job opportunities.

Besides Academics, the College has been facilitating various co curricular activities such as Literary competitions, Science Day Celebrations, Inter College Debates, Regional Mathematics Olympiad, Madhav Mathematics Competition etc. to provide students opportunities to develop their cognitive skills and think creatively. Ku. Sonali Meshram, a student of M.Com. made the college proud by winning the third prize at the zonal level in the All India Essay writing competition, 2015 while Pallav Agrawal, a student from the Department of Mathematics won Bronze medal at the International Mathematics Olympics in the year 2013. Students are also

actively engaged in winning laurels at various seminars, conferences and workshops. Hitendra Kr. Lautre presented his paper at an International Seminar held in Malaysia in the year 2014 while Vikas Dubey and Swati Pandey, won the first prize in oral presentation at a National seminar and Best poster presentation award at an International seminar in the year 2014 the institution has also actively been supporting Research and Publications by PG students. The last few years have witnessed 10 papers published by students in international journals of repute. Students are also engaged in publishing their research papers.

The Institution also engages students in various extracurricular activities, the most popular amongst them being sports, cultural activities, NCC, NSS, and Youth Red Cross. Students have been representing the college at various levels. Ranjeet Patel, a student from the college participated and represented the Country in Half Marathon at the World University Competition held in Turkey in the year 2014-2015. *In the year 2014-2015*, Tanushri Sengupta, a student of the college represented the University at the Inter University (Zonal) competition in Rangoli. Similarly, students have also been representing the NCC units at various national events. Ratnakar Uppadhyaya made the college proud by attending the Republic Day Camp in New Delhi at the PM Rally.

Students have also brought pride to the Institute by winning awards and being recognised by National and State Govt. for their contribution towards research in recent times. Kanchan Uppadhyaya, Vikas Dubey, Gautum Sil Thool and Ekta Singh have been awarded the Chhattisgarh Young Scientist Award in the year 2014-2015 while Swati Pandey and Seema Tripathi have won the DST Women Scientist award in the year 2015 and Bhavna Jain has been awarded the UGC Post Doctoral fellowship.

The College has also been closely associated with civil society and engages its students in various Community Outreach programmes to make them realize their social obligations and responsibilities. In accordance with these ideals, the college has adopted "*Thanoud*" village in the year 2016. Various awareness measures such as cleanliness drives, blood donation camp and plantation drives have been undertaken in the village. Similarly, Annual Camp of NSS organized at *Khapri Siloda* and village *Khamaria* and Youth Red Cross organized a Health and Nutrition camp at *Kodiya* village.

In brevity, the college takes pride in providing various student support measures for the welfare of students and their holistic development. The students have been availing these benefits and their achievements are a testimony to the success of these measures.

Criterion VI: Governance, Leadership and Management

The College, retaining its tradition and in accordance with its mission, is committed to address the needs of the diverse student population and their all round development with a vision to “empower the youth, especially belonging to the underprivileged sections of society, through quality education by inculcating philanthropic values and enabling them to meet the challenges of the contemporary knowledge society.”

Under the enlightened leadership of the Principal, the organizational structure and culture of the college has successfully achieved greater heights in academic and non academic spheres. The proper governance and guidance of the leadership ensures formulation and implementation of all policies, plans and programmes effectively.

The college promotes a culture of participative management at the academic, administrative and financial levels. Autonomy is provided at various levels. Powers are decentralized through a well defined system and responsibilities are communicated to the conveners of committees, cells and societies. The leadership ensures ample scope of involvement and participation of all the stakeholders. In all there are 43 committees which work in consonance with the goals and objectives of the institution for its progression.

Following a democratic and an open door policy of leadership, the Principal is easily accessible to all the stakeholders such as students, teachers, parents, industrialists, alumni etc. The leadership seeks their involvement in various decision making policies and plans and feedback received from the stakeholders helps in execution of all the plans and proposals to ascertain overall development of the institution.

The college administration is run with the support of various academic, extra-academic and administrative committees, cells and societies and all the activities/plans are executed within the framework of the governance. The teaching staff is assigned with responsibilities to facilitate and nurture leadership skills among students. The student union is considered an integral part to promote and inculcate leadership qualities among students at college level. Leaders of NCC, NSS and Youth Red Cross are mentored to exhibit their leadership qualities.

The college is affiliated to Pt. Ravishankar Shukla University, Raipur. The University provides leadership to the faculty members in both academic and administrative bodies of the college such as Governing Body, Academic Council, Board of Studies, IQAC etc.

The college has evolved a strategy for knowledge management keeping in view that successful institutions are knowledge aspirants and are keen to promote and transfer knowledge from one to all.

The Review committee of UGC has visited the institution in 2014. On the basis of their recommendation UGC has extended its autonomous status till 2020.

The college is determined to exploit the latest resources to keep pace with emerging trends in teaching and learning therefore has a perspective plan for its overall development. In the last four years various plans have been proposed and executed related to different policies and strategies.

The IQAC is operating with a mission to inculcate quality culture with a commitment towards excellence. It works towards achieving the goals and objectives spelled out in the vision and mission of the college and improving overall quality of the institution.

Criterion VII : Innovations and Best Practices

As enshrined in its vision the college has successfully translated its goals and objectives into reality to retain its academic excellence by adopting and initiating innovative strategies into practice. In the last four years it has been persistently ascending in its pursuit of excellence and has become a paradigm for other institutions.

With the passage of time new emerging trends and fast developments in the field of technology have made dissemination of education or transfer of knowledge quite challenging especially to the students belonging to the semi-urban and rural areas. In order to reach its stakeholders and render services the college has in its schedule various outreach programmes apart from teaching and learning strategies.

Community engagement/orientation:

To orient and engage one of the largest populace of community is not an easy task, so the college fraternity has taken initiatives to inculcate awareness and also sensitize the community towards societal issues through Innovative Practices under the auspices of **Academia-Community Interface Programme (ACIP)**. Academia-community Interface Programme (ACIP) is one of the major innovative practices that have proved its stance in the last few years. The main objective behind introducing this programme is to share academic expertise and practical skills for the upliftment and betterment of society through various community outreach activities. These activities help in cementing the relationship between the institution and the stakeholders, especially the community. It also fosters a sense of shouldering responsibilities of the community as a part of it. Under its umbrella the following community programmes have been launched and executed. They are viz., Organization of Sickle Cell Anaemia Testing and Awareness Camps by the Department of Biotechnology, Sickle Cell Anaemia Awareness Programme by the Department of Sociology in association with NCC and NSS, Free consultancy services rendered by the Department of Geology, Laboratory Training Programme for school students and teachers, *Gyan kosh*; Audio-Visual Lecture CDs, Awareness Drive on Personality Enhancement by Psychology Department, Awareness Camp on Common Prevailing Diseases, Guidance to Farmers by the Department of Zoology etc.

Best Practices: To better academic and administrative functioning, the institution has introduced a variety of best practices, amongst these two Best Practices are:

1) ***Academic Mentoring of Schools (AMS)***: This practice was introduced in 2011 keeping in view to promote collaborative engagements between the institution and the government schools in the neighbourhood. The objective behind adopting it aims at transferring of academic expertise and skilled resources and provide institutional assistance to upgrade and facilitate these schools with good academic and intellectual help to empower them to keep pace with the fast changing global and local scenario.

2) ***Promotion Of Quality Culture Amongst Colleges (PQCC)***: Promotion of Quality Culture amongst Colleges was initiated and introduced with an aim and desire to build a “knowledge Society” around creating quality consciousness among the colleges in the state. The world has transformed into a global village. Upcoming market economies, new technologies and emerging trends set a challenge to educational institutions. In order to meet these challenges and thrive, sharing of knowledge and expertise has become the dire need of all the institutions. The college has taken a lead by implementing this practice successfully. Various efforts at developing strategies and measures for implementation of quality education and quality culture within campuses have also been assured through the formation of the ‘**District Quality Circle**’.

To create and develop quality culture amongst colleges in its vicinity the college conducted five **Rashtriya Uchcharat Shiksha Abhiyan (RUSA)** workshops in 2014-15. The college also has to its credit being selected among twenty institutions across the country for preparing the **National Higher Qualification Framework (NHEQF)**.

Apart from the above mentioned activities, some noteworthy Innovative Practices incorporated and implemented are; Retention of diversity among staff and students, Adoption of Village *Thanaud*, Public Library services, Furniture supplied by Central Jail inmates, Outsourcing of Examination invigilators from nearby schools, Examination Reforms etc. To mentor the students coming from Naxal-affected area is under proposal and is to be implemented in the coming sessions.

To create a clean and healthy environment is one of the most basic and essential practices which the college has adopted and is incessantly working towards creating awareness to save environment. The college conducts “Green Audit” of its main campus as per the government norms. To make the campus eco-friendly the college has taken specific measures for energy conservation, rain water harvesting, efforts for carbon neutrality, plantation, hazardous waste management, e-waste management, environmental awareness campaign etc.

SWOC ANALYSIS

Strengths

1. A premium higher education institution in the region that has acquired high academic standards which are as follows:
 - First “A” grade college accredited by NAAC in Chhattisgarh.
 - Achieved First Rank amongst the colleges in Durg division for implementation of ‘*Mahavidyalayeen Panchmukhi Karyakrama*’ of Department of Higher Education, Govt. of Chhattisgarh during the session 2015-16.
 - First recipient of CPE grants in three consecutive phases in the region.
 - Faculty of Science recognized as ‘**Center of Excellence**’ by Govt. of Chhattisgarh.
 - Six departments namely Physics, Chemistry, Mathematics, Geology, Zoology and Sociology, recognized as ‘**Highly Rated Department**’ under CPE scheme of UGC.
 - Five departments from Science Faculty recognized as ‘**Star Departments**’ by the Department of Biotechnology, Govt. of India under Star College Scheme.
 - One of the twenty institutions shortlisted by UGC invited for providing feedback in order to formulate the ‘**National Higher Education Qualification Framework**’ (NHEQF).
 - First rank in state awarded by Higher Education Government of Chhattisgarh.
2. Substantial growth in research and publications.
3. Social justice and gender parity institutionalized among the faculty and students leading to peace and harmony in the campus.
4. Adequate infrastructure with qualified and experienced faculty.
5. Extensive community outreach programmes in neighbouring rural areas.

Weaknesses

1. Disproportionate teacher-students ratio, especially in UG classes.
2. Few departments offer professional consultancy services.
3. Shortage of classroom at peak hours.
4. Inadequate number of Smart class rooms.
5. Insufficient Alumni network and support.

Opportunities

1. Abundant student intake to be groomed into skilled human resource.
2. Availability of adequate grants/funding from various agencies.
3. Vast surrounding rural populace to be addressed and catered through extension/consultancy services/Outreach activities for qualitative transformation.
4. Demand for skilled human resource in the region to be fulfilled through initiation of recent skill based courses/short term programmes.
5. Vast industrial base in the neighbourhood for developing academia-industry interface.

Challenges

1. Stiff competition with private institutions.
2. Weak socio-economic background and poor language proficiency of students.
3. Availability of substandard study material in the market.
4. Introducing new academic programmes with inter-disciplinary and skill oriented approach.
5. Keeping pace with rapid socio-eco-political-technological and environmental changes.

SECTION A: PREPARATION OF SELF-STUDY REPORT**1. Profile of the Autonomous College****1. Name and Address of the College:**

Name :	Govt.VYT PG Autonomous College, Durg	
Address :	Great Eastern Road, Durg	
City :	Pin : 491001	State : Chhattisgarh
Website :	www.govtsciencecollegedurg.ac.in	

2. For communication :

Designation	Name	Telephone With STD code	Mobile	Fax	email
Principal	Dr Surendra Kumar Rajput	O: 0788-2211688	+919425211073	07882211688	pprinci2010@gmail.com
Vice Principal	-	-	-	-	-
Steering Committee coordinator	Prof.J.K.Saluja	O: 0788-2211688	+919977717571		jagjeet_62@yahoo.co.in

3. Status of the Autonomous College by management.

- I Government ✓
 II Private
 III Constituent College of the University

4. Name of University to which the College is Affiliated

Pandit Ravishankar Shukla University, Raipur (CG)

5. a. Date of establishment, prior to the grant of 'Autonomy' (18/08/1958)

b. Date of grant of 'Autonomy' to the College by UGC: (13/06/1988)

6. Type of Institution:

a. By Gender

i. For Men ii. For Women ii. Co-education

b. By Shift

i. Regular ii. Day iii. Evening

c. Source of funding

i. Government i. Grant-in-aid ii. Self-financing iii. Any other (Please specify)

7. It is a recognized minority institution?

Yes No

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence

8. a. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	01.01.1972	
ii. 12 (B)	01.01.1972	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

b. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.) - **NA**

Under Section/ clause	Day, Month and Year (dd-mm-yyyy)	Validity	Programme/ institution	Remarks
i.	NA			
ii.	NA			
iii.	NA			
iv.	NA			

(Enclose the Certificate of recognition/approval)

9. Has the college recognized

a. By UGC as a College with Potential for Excellence (CPE)?

Yes

 ✓

No

If yes, date of recognition : Phase I (16/08/2006)
Phase II (31/03/2011)
Phase III (01/04/2014)

- b. For its contributions / performance by any other governmental agency?

Yes

No

If yes, Name of the agency

The names of other government agencies, who have given recognitions to the institute for its performance is as follows:

- i. Department of Higher Education, Govt. of Chhattisgarh has declared our College as Centre for excellence in Science.
Date of recognition: (01/10/2006)
- ii. Department of Biotechnology, Govt. of India has recognized department of Physics, Chemistry, Zoology, Botany, Microbiology and Biotechnology under the DBT Star College Scheme. This scheme is enforced only at our college among all colleges of Chhattisgarh and M.P. **Date of recognition: (29/02/2012)**
- iii. Achieved First Rank amongst the colleges in Durg division for implementation of 'Mahavidyalayeen Panchmukhi Karyakrama' of Department of Higher Education, Govt. of Chhattisgarh during the session 2015-16.

10. Location of the campus and area :

Location *	Urban
Campus area in sq. mts. Or acres (including hostel campus and staff quarters)	21.75 acres
Built up area in sq. mts.	7211.62 sq mt.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex ✓
 - Sports facilities
 - * Play ground ✓
 - * Swimming pool ✗
 - * Gymnasium ✓
 - Hostel
 - * Boys' hostels ✓
 - * Girls' hostels ✓
 - Residential facilities
 - * For teaching staff ✓
 - * For non teaching staff ✓
 - Cafeteria ✓
 - Health centre –
 - First aid facility ✓
 - Inpatient facility ✓
 - Outpatient facility ✓
 - Ambulance facility ✗
 - Emergency care facility ✗
 - Health centre staff –
- | | | |
|------------------|-----------|-------------|
| Qualified doctor | Full time | Part-time ✓ |
| Qualified Nurse | Full time | Part-time ✗ |
- **Other facilities**
 - Bank ✗
 - ATM ✓
 - post office ✗
 - book shops ✓
 - **Transport facilities**
 - for students ✗
 - for staff ✗
 - **Power house** ✗
 - **Waste management facility** ✓

12. Details of programmes offered by the institution : (Give data for current academic year)

Programme Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student intake	No. of students admitted
UG	B.Sc., B.A., B.Com., B.C.A	3yrs	12 th	Hindi & English	BSc. - 890 B.A. - 450 B.Com. -450 B.Com. (C.A.)- 80 BCA- 60	BSc. - 881 B.A.- 430 B.Com.-425 B.Com. (C.A.)- 80 BCA-44
PG	M.Sc., M.A., M.Com.	2 yrs	UG	Hindi & English	M.Sc. -190 M.A.-280 M.Com- 100	MSc. -174 M.A. -164 M.Com.-90
Integrated Masters	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-
Ph. D.	14		PG	Hindi & English	228	178
Integrated Ph.D.	-	-	-	-	-	-
Certificate	-	-	-	-	-	-
Diploma	-	-	-	-	-	-
PG Diploma	PGDCA	1 yrs	UG	English	110	100
Any Other	B.Lib	1 yrs	UG		B.Lib-40	B.Lib-15
(Please specify)	M.Lib	1yrs	B.Lib		M.Lib-20	M.Lib-15

13. Does the institution offer self-financed Programmes?

Yes

No

If yes, how many?

14. Whether new programmes have been introduced during the last five years?

Yes No

If yes

15. List the departments: (Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)

Particulars	Number	Number of Students
Science		
Under Graduate	08	UG- 1606
Post Graduate	08	PG-342
Research centre(s)	07	Research Scholar- 48
Arts		
Under Graduate	10	UG-793
Post Graduate	07	PG-289
Research centre(s)	06	Research Scholar-90
Commerce		
Under Graduate	01	UG-931
Post Graduate	01	PG-168
Research centre(s)	01	Research Scholar-40
Any Other (please specify)		
Under Graduate	B.Lib-01 B.C.A.-01	B.Lib.-15 B.C.A-69
Post Graduate	M.Lib.-01	M.Lib.-15
Diploma Course	PGDCA-01	PGDCA-100
Research centre(s)	-	-

16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details. NO

17. Number of Programmes offered under (Programme means a degree course like BA, MA, BSc, MSc, B.Com etc.)

a. annual system	05
b. semester system	17
c. trimester system	-

18. Number of Programmes with

- a. Choice Based Credit System x
- b. Inter/Multidisciplinary Approach x
- c. Any other (specify) x

19. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs. 64772/-

(b) excluding the salary component

Rs.36246/-

20. Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?

Yes

No

If yes,

a. How many years of standing does the department have?
..... years

b. NCTE recognition details (if applicable) Notification No.:
.....
Date: (dd/mm/yyyy)

c. Is the department opting for assessment and accreditation separately?

Yes

No

21. Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?

Yes

No

If yes,

- a. How many years of standing does the department have?
..... years
- b. NCTE recognition details (if applicable) Notification No.:
.....
Date: (dd/mm/yyyy)
- c. Is the department opting for assessment and accreditation separately?

Yes No

22. Whether the College is offering professional programme?

Yes No

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

-Yes, the college has been reviewed by UGC peer team, and Pt. Ravishankar Shukla University, Raipur C.G. team of experts for extending Autonomous Status of the College.

The Higher Education department of State Government has also reviewed the Institutions on various performance indicators. The college has been ranked 1st, securing 98 points out of 100, amongst 267 colleges in Chhattisgarh State.

24. Number of teaching and non-teaching positions in the College

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government <i>Recruited</i>	10	18	-	-	17	33	27	04	11	04
<i>Yet to recruit</i>										
Sanctioned by the - Janbhagidar Management/ society or other authorized bodies <i>Recruited Yet to recruit</i>	-	-	-	-	8	28	-	-		

*M - Male *F - Female

25. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	
nil							
Ph.D.	10	18			13	26	67
M.Phil.					01	03	04
PG					03	04	07
Temporary teachers							
Ph.D.	-	-	-	-			
M.Phil.	-	-	-	-			
PG							
Part-time teachers							
Ph.D.	-	-	-	-	02	08	10
M.Phil.	-	-	-	-	02	04	06
PG	-	-	-	-	08	12	20

26. Number of Visiting Faculty/ Guest Faculty engaged by the College.

27. Students enrolled in the College during the current academic year, with the following details:

Students	UG		PG		Integrated Masters		M.Phil.		Ph.D.		Integrated Ph.D.		D.Litt./ D.Sc.		Certificate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state where the College is located	1752	1621	392	525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	62
From other states of India	25	23	04	06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRI students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Foreign students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1777	1644	396	531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	62

* M - Male

* F - Female

28. Dropout rate in UG and PG (average for the last two batches)

UG

PG

29. Number of working days during the last academic year.

30. Number of teaching days during the last academic year

31. Is the College registered as a study centre for offering distance education

programmes for any University?

Yes

No

If yes, provide the

- a. Name of the University : Open University study center
 1. IGNOU, New Delhi
 2. Pt. Sundarlal Sharma Open University Bilaspur

- b. Is it recognized by the Distance Education Council?

Yes No

- c. Indicate the number of programmes offered.

49

32. Provide Teacher-student ratio for each of the programme/course offered

2015-16 Student Teachers ratio

Name of department	UG	PG
Physics	57/1	6/1
Chemistry	90/1	5/1
Mathematics	108/1	15/1
Botany	64/1	6/1
Zoology	85/1	6/1
Geology	82/1	8/1
Biotechnology	30/1	8/1
Microbiology	40/1	10/1
Geography	87/1	22/1
Anthropology	130/1	-
Computer Science	50/1	32/1
Hindi	494/1	8/1
English	322/1	5/1
Economics	33/1	3/1
Sociology	137/1	5/1
Political science	173/1	12/1
Psychology	18/1	-
Sanskrit	22/1	-
Commerce	243/1	45/1
Library Science	40/1	5/1

33. Is the College applying for?

Accreditation : Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-accreditation :

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: 04/05/2004 : Accreditation outcome/results. **2.7/B+**

Cycle 2: 30/11/2011 : Accreditation outcome/results **3.10/A**

Cycle 3: Not done : Accreditation outcome/results *

Kindly enclose copy of accreditation certificate(s) and peer team report(s)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

a. Date of establishment of internal Quality assurance Cell (IQAC)- 15.09.2005

b. Dates of submission of Annual Quality Assurance Reports (AQARs). Verify*

(i) AQAR for year 2011-12 on 03/07/2012

(ii) AQAR for year 2012-13 on 06/06/2013

(iii) AQAR for year 2013-14 on 13/07/2014

(iv) AQAR for year 2014-15 on 30/07/2015

(v) AQAR for year 2015-16 on 29/07/2016

36. Any other relevant data, the College would like to include. (Not exceeding one page)

Units	Boys	Girls
NCC	√	√
NSS	√	√
Youth Red Cross Society	√	

CRITERION I : CURRICULAR ASPECTS

1.1 Curriculum Design and Development

Curriculum is a significant aspect of pedagogy as it reflects the inner essence of cognitive process of acquiring knowledge. The institution has taken a lead in this process of imparting education to those who crave for intellectual contentment. Keeping in consonance with its goals and objectives, the institution is incessantly striving to achieve new heights day-by-day. The curricula have been designed and adopted to address and meet local needs as well as globalized technosphere.

1.1.1 How are the institutional vision / mission reflected in the academic programmes of the College?

The college has been persistently marching towards exploring new horizons keeping in tune with its vision which states:

Vision :

‘To empower the youth, especially belonging to the underprivileged sections of society, through quality education by inculcating philanthropic values and enabling them to meet the challenges of the contemporary knowledge-society’.

Mission:

To translate the vision into reality, the institution is committed to:

- embrace in its fold students from all sections and categories especially addressing to the needs of the first generation learners,
- expose the students especially the under-privileged ones to variety of activities, academic and extra-academic, aiming at their overall development,
- inculcate humanistic and social values in the students to motivate them towards community services,
- kindle the entrepreneurial spirit in students,
- inspire the young minds to develop the habits of critical thinking to achieve creative excellence,
- promote quality research among the teachers and students,
- sensitize the students on issues relating to ecology, environment, human rights and gender equality,
- foster global competencies.

The vision and mission of the College is reflected in the following programmes:

Academic Programme :

The academic programme of the college is designed and formulated to meet the societal and industrial challenges and the emerging trends. To fulfill this, the institute has taken major steps by reforming and reframing its curricula, and also incorporating new skill based programmes, by offering grading system at the PG level, and in a few self- financing programmes etc.

Skill Based and Self-financing Programmes :

To ensure employability of the students the college provides choices to opt skill based programmes such as:

dza-	Programme	Seats Available	Duration
1	M.Sc. (Biotechnology)	20	4 Semester
2	M.Sc. (Microbiology)	20	4 Semester
3	M.Lib.& I.Sc.	15	2 Semester
4	PGDCA	90	1 Year
5	BCA	60	3 year
6	B.Lib.& I.Sc.	40	1 year
7	B.Com with Computer Application	80	3 year
8	B.Sc. with Microbiology	80	3 year
9	B.Sc. with Biotechnology	40	3 year
10	B.Sc. with Industrial Chemistry (Mathematics Group)	30	3 year
11	B.Sc. with Industrial Chemistry (Biology Group)	30	3 year
12	B.Sc. Biochemistry	40	3 year
13	B.Sc. with Computer Science	80	3 year
14	B.Sc. with Electronics	40	3 year

Some more self-financing Programmes which are proposed to be started from upcoming session are mentioned below:

No.	Programme	No. of Seats
1	M.Sc. (Statistics)	20 Seats
2	M.Sc. (Computer Science)	20 Seats
3	Diploma in Food Science & Oil Technology	40 Seats
4	Diploma in Social work	40 Seats
5	Certificate Course in Tally	40 Seats

Reforms and Reframing of Curricula:

- A paper on Environmental Studies and Human Rights is included as Compulsory subject in the UG programme as per UGC guidelines.
- Anthropology can also be opted by both the students of Arts and Science. Similarly, Geology and Industrial Chemistry can be opted by the students of Mathematics and Biology groups at UG level.
- Combination of Economics with Mathematics and Geography along with Chemistry and Botany is under proposal.
- Credit Based Semester System (CBSS) is adopted at PG level. The syllabus is divided in 04 units with a credit distribution of 05 marks per unit.

Research Programme for higher learning:

In order to motivate and promote the aspirants towards research and higher learning, the faculty provides proper guidance and under the supervision of research supervisors a range of research activities are carried out on burning and crucial topics focused on sickle cell anaemia, nano materials, thermoluminescence, cost-effective methods of water purification, microbial based secondary metabolites production etc having relevance to the present scenario. This drives the researchers to crave and acquire in-depth knowledge in their thrust areas and produce quality research work. The research scholars get opportunity to publish their papers in the journals of national and international repute. The institution organizes a large number of seminars, conferences and workshops to keep pace with the recent changes at global level and to familiarize and expose them to the wider world.

Project work is an integral part of the curricula in Masters Degree programmes. The project work is undertaken in Semester IV alongwith practical work/ field work/ surveys etc.

Community-Oriented Research

All the departments of the college have preferably focused their research activities towards understanding current problems and development of society. The thrust areas of the Ph.D. programmes conducted by many of the departments have community-orientations. The department of Political Science has carried out research on tribal issues. The department is currently working on a UGC sponsored project on naxalism. Similarly a major research project on 'Empowerment of rural women and non Government Organization' is running in the department of Sociology. The department of Biotechnology is pursuing research on 'Isolation and Characterization of Biomolecules of Pharmaceutical', 'Cosmetic and

Nutritional Importance of Native plants of Chhattisgarh State', 'The prevalence of human parvovirus B19 from Sickle Cell Anemia affected population of tribal area of Rajnandgaon district of Chhattisgarh'.

Extension Programmes

Volunteering in their respective extension activities instills social commitment among students. Every department has its own academic association. The activities of Departmental Associations involve lectures, national and international seminars/conferences and workshops, social awareness campaigns and some interdisciplinary activities. Students are also involved with NCC, NSS and Youth Red Cross Society to fulfill their social responsibility.

The institutional vision is in tune with its mission and the college fraternity is aware enough as well as committed to involve those from the marginalized and segregated sections from the main stream so as to enable them to participate in all the programmes and activities of the college. The institution primarily aims to inculcate social and ethical values by disseminating quality education in its students and empower them to serve their community. In order to ensure wider exposure to recent developments and technological advancements, which are the requisites for building a knowledge-based society, the college has initiated and reformed its curricula and pedagogical methodology.

1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)

The College adopts the curriculum approved by the Central Board of Studies at UG level. However, the college follows the model-syllabi prescribed by UGC, with some modifications at the PG level. The syllabi are designed, developed and modified by the Board of Studies which comprises stake holders viz. faculty members of department, external subject experts, VC's nominees, Principal's nominees and student representatives. Meeting of Board of Studies is conducted every year before the commencement of every academic session.

In the purview of societal structure and changing dynamics, the needs are identified from the feedback given by the stake holders in a formal and informal manner. After assessing the demands the institution incorporates those essentials in the curriculum. While framing the curriculum, components like interdisciplinary approach, practical and experiential learning, technology enabled learning, creative and analytical thinking, employability, personality enhancement, socio-ethical perception are given emphasis. Necessary changes are ascertained and incorporated in the

curriculum based on feedback from the stakeholders in a prescribed format, interactions with the resource persons and the peer group at various academic forums, suggestions of the academic audit team and the syllabi prescribed in other educational institutions. The syllabus of each paper is divided into Units, Chapters and Sub-chapters along with marking scheme and assessment pattern. The syllabi revised and approved by the Board of Studies are acknowledged by the Autonomy Cell and implemented by the respective departments.

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

The college was established to cater the needs of an agrarian society transforming into an emergent industrial society, particularly after the establishment of Bhilai Steel Plant (BSP). A number of alumni of this college were employed in BSP during the early decades of industrial development in this region. Presently many ancillaries of Bhilai Steel Plant are working in the neighbourhood of the college, which need skilled and quasi-skilled human resource. Although the industries were not directly involved in the process of curricular development, the curriculum was designed in such a way as to cater to the need of the industry and the society at that time. The details are mentioned in table 3.25 of Criterion III. Some of the departments receive feedback on their curricula from executives of various industries belonging to Iron and steel, Cement, Electronics, Computer and Information Technologies, Pharmacy, Telecommunications sectors, and incorporate their suggestions in the curriculum.

In the past few years the institute has initiated and integrated many new courses like Industrial chemistry, Biochemistry, Biotechnology, Microbiology, Electronics, and Computer Science etc. realizing the significance of employment in nearby industries. Apart from these, courses like M. Lib, B. Lib, B.Com with Computer Application, Communicative English etc. have also been incorporated to meet the upcoming changes in the field of industry, market and economy. Collaborations generated with reputed academic institutes also help in designing the curriculum of advance courses. Some of the renowned academicians have contributed to curricular development with their valuable suggestions.

The Departments organize extension lectures related to various disciplines by outsourcing the experts which provide opportunities to interact with them and share their views and ideas for strategic planning towards curricular development.

1.1.4 How are the following aspects ensured through curriculum design and development?

□ **Employability**

Employability is a major consideration in the design and development of the curriculum. Besides core subjects, some job oriented courses like B.Com with Computer Application, BCA, B.Lib. & I.Sc., PGDCA, M.Lib. & I.Sc. are running successfully in college with elevated demands. Courses like B.Sc. with Computer Science, Industrial Chemistry, Microbiology and Biotechnology have been incorporated in the Syllabi seeing their significance in the job market. At PG level, project work and activity based learning are incorporated in the curriculum to ensure to make them competent enough to become self reliant..

□ **Innovation**

Project based learning is made compulsory for PG students for inculcating research culture among them.

- To promote ICT enabled learning, e-notes, e-books and other educational e-resources are utilized by the PG students. They are also oriented towards accessing information highway through internet and present their seminar papers compulsorily through power point.
- An academic calendar is designed to conduct regular academic and other activities of the institution timely.
- The department of Hindi has re-designed the syllabus of PG Course and has devised and introduced a new paper '*Chhattisgarhi Lok Vangmaya*' based on intangible literary tradition and folklore of the region.

□ **Research**

- Curriculum is framed to encourage the students to undertake research.
- Project based learning, home assignments and seminar presentations are compulsory components of PG curriculum to motivate and inspire the students towards research.
- The findings of PG projects are presented in seminars and conferences and published in research journals.

1.1.5 How does College ensure that the curriculum developed addresses the needs of the society and have relevance to the regional / national developmental needs?

The curriculum is developed keeping in mind the 'needs' that exist at the regional and national levels: human needs and social problems also have a bearing on curriculum design. The college has modified and

restructured and introduced the curricula of new skill based courses to meet the developmental challenges, which are as follows:

- The major curricular restructuring has been done particularly in self financing courses like M.Sc. Microbiology and Biotechnology to keep attuned to the recent advancement in biological sciences and their societal implications.
- Department of History and Political Science have also designed a new paper combination for M.A. courses with the need to address regional issues.
- The departments of Sociology and Political Science undertake Women-centric research from the perspectives of their respective disciplines to meet needs at the regional level.
- As a part of curriculum PG students carry out projects on various issues of social relevance and regional needs.
- The College offers a compulsory paper in Environmental Studies in the first year at UG level. The students submit project reports based on environmental issues compulsorily.

1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?

The college has adopted the curriculum for UG designed by the Central Board of Studies constituted by the Department of Higher Education, Government of Chhattisgarh and approved by the State Coordination Committee headed by the Hon'ble Chancellor.

PG courses are framed by the Board of Studies of different disciplines, following the guidelines set and model curriculum offered by the UGC for selection of core and elective options. The restructured Syllabi is approved by the Academic Council of the College. The guidelines of the UGC model curriculum are broadly followed while restructuring the syllabi, taking into consideration the local needs, demands of industry and availability of human and infrastructural resources.

1.2 Academic Flexibility

1.2.1 Give details on the following provisions with reference to academic flexibility

- a. **Core / Elective Options:** The institution follows the unified syllabus approved by Central Board of Studies constituted by the Department of Higher Education, Govt. of Chhattisgarh. However in PG courses there is a provision of specialization in semester IV in few subjects and

- project oriented dissertation in lieu of one theory paper in a few subjects.
- b. **Enrichment Courses:** Short term , topic specific courses of 2 to 25 days duration were conducted time to time , they include solar energy, remote sensing, communication skills, banking, financing and insurance etc.
 - c. **Courses offered in Modular form:** Presently Credit Based Semester System (CBSS) is being followed in the PG courses and annual system is followed in UG courses.
 - d. **Credit Transfer and Accumulation facility:** Yet to be introduced.
 - e. **Lateral and Vertical Mobility within and across programmes and courses:** The institution offers vertical mobility within and across programmes.

1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.

No, currently no course is offered in the College that specifically targets international students alone. However, the curricula of the PG courses under the scheme of Autonomy are designed and developed to suit the global requirements.

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

No, the college does not offer any programme that facilitates twin or dual degree. However, B.Com along with Computer Application is being offered to the students under self financing scheme (not a dual degree).

1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

- Yes, the college offers self financed courses both at UG and PG levels. Microbiology, Biotechnology, Biochemistry, Industrial Chemistry, Electronics, Computer Science, Computer Application, Library and Information Science are accessible at UG level and Microbiology, Biotechnology and Library & Information Science are available for Masters degree too. A PG Diploma in Computer Science exists as self financing course. Altogether, 09 courses at UG, 03 at PG and one PG diploma is running under self financing scheme.
- The courses are specially designed keeping in mind the needs of Society and Industry using the model curriculum recommended by the UGC. The curriculum is well charted and planned to meet the

requirements of competitive scenario. ICT based presentation and project work is an integral part of curriculum for PG subjects.

- The number of seats available, minimum qualification and duration of course is as follows:

S.No.	Course/ Subject	Seats available	Duration of the course	Fee structure (Rs./ year)
1	M.Sc. Microbiology	20	04 Semesters	15,000/-
2	M.Sc. Biotechnology	20	04 Semesters	15,000/-
3	M.Lib and I.Sc.	15	02 Semesters	25000/-
4	PGDCA	90	02 Semesters	12000/-
5	B.Lib. and I.Sc.	40	01 Year	12000/-
6	BCA	60	03 years	10000/-
7	B.Com. with Computer Application	80	03 years	3000/-
8	B.Sc. with Microbiology	80	03 years	2000/-
9	B.Sc. with Biotechnology	40	03 years	3000/-
10	B.Sc.with Industrial Chemistry Maths group - Bio group -	60 (30+30)	03 years	1200/-
11	B.Sc. with Biochemistry	40	03 years	3000/-
12	B.sc. with Computer Science	80	03 years	3000/-
13	B.Sc. with Electronics	40	03 years	2000/-

- The fee structure is designed by Jan Bhagidari Committee and approved by finance committee of the college.
- Teachers are appointed at regular, Ad- Hoc and contractual basis. The regular faculty are sanctioned by Govt. of Higher Education and filled by PSC of the State. Ad-Hoc faculties are appointed on the basis of merit on vacant posts. Teacher's qualification is set as per UGC norms. Some subjects also appoint contractual teachers, appointed on

the basis of merit and their salary is approved by college Jan Bhagidari committee.

**1.2.4 Has the College adopted the Choice Based Credit System (CBCS)?
If yes, how many programmes are covered under the system?**

No, the college does not follow CBCS.

1.2.6 What percentage of programmes offered by the College follows:

Annual system: All UG courses including 08 subject combination in maths group, 07 subject combination in Bio group, 20 subject combinations in Arts, 02 subject combinations in Commerce and BCA and B.Lib.&I.Sc. are running on the basis of Annual System .

Semester system: All PG courses including 08 M.Sc., 07 M.A., 01 M.Com. and 01 PG Diploma are running on the basis of Semester System.

Trimester system: Not in practice.

1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

All the courses mentioned in 1.2.4 running under self financing scheme have been designed and approved keeping in mind the inter-disciplinary approach. Some additional skill development exercises are also in practice under DBT STAR College Programme for science subjects at UG level. B.Com with Computer Application is also being run in the department of Commerce.

Apart from this, various departments also promote interdisciplinary academic activities at PG and research level. Students and research scholars make use of interdisciplinary expertise available in the college. The department of Physics, Chemistry, Geology, Microbiology, Geography and Botany are carrying out interdisciplinary academic and research activities.

There is a central instrumentation laboratory in the college that holds highly sophisticated instruments, functioning under the department of chemistry, to be utilized by all the departments of science.

An interdisciplinary compulsory paper on Environmental Studies and Human Rights at UG level is being taught which has been instrumental in creating awareness among students towards ecology and bio-diversity. Simultaneously, it also creates awareness about human rights.

Inclination towards courses like BCA, B.Com. with Computer Application, PGDCA, B.Lib & I.Sc. and M.Lib.& I.Sc., is a proof for the need for inter-disciplinary programmes.

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The curriculum is revised time to time, social relevance and available resources in the departments. The teaching departments ensure that the syllabus is socially relevant and job oriented to some extent. Considering the emerging needs of the students, the board of studies of various departments of the college has student representatives who contribute and give suggestions for curricular reformation. The college offers job oriented and knowledge intensive self financed courses both at UG and PG levels. Microbiology, Biotechnology, Biochemistry, Industrial Chemistry, Electronics, Computer Science, Computer Application, Library and Information Science have been offered at UG level and Microbiology, Biotechnology and Library & Information Science can be opted at PG level. A PG Diploma in Computer Application exists as self financing course. All these courses have been designed, implemented and reviewed to make them socially relevant, keeping pace with the emerging circumstances.

Department of History and Political Science have also designed new papers for PG courses that address regional issues. The departments of Sociology, History, Geography and Economics undertake projects based on women and marginalized section of the society.

1.3.2 How many new programmes have been introduced at UG and PG level during the last four years? Mention details.

- Inter-disciplinary: No such programmes have been introduced.
- Programmes in emerging areas:
B. Lib. & I. Sc. on annual basis and M. Lib & I. Sc. On semester basis are the new courses introduced since 2013 and 2014 respectively. Considering the demand for trained human resources in the field of library documentation and citation, the courses run under self financing scheme and have great demand in the state.
The following are some degree and certificate courses designed and sent for endorsement to the Govt. of Higher Education and yet to be sanctioned.

S.No.	Name of Course
1	Diploma in Food Science and Oil Technology
2	M.Sc. Computer Science
3	M.Sc. Statistics
4	Master of Social Work (MSW)
5	Certificate Course in Tally

1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

The department obtains feedback in informal ways from all the stakeholders periodically. IQAC also obtains feedback in a formal format once in a year from both UG and PG students. Informal feedback is also taken from subject experts, with industry personnel who provide valuable inputs for enriching the curriculum. Apart from this the institute follows the contemporary changes in the field of academics, and reforms the curriculum in accordance with them. The Board of Studies of the departments suggest reforms and recommendations, which are approved by the Academic Council in turn. The major curriculum revision done so far in different departments during the last five years:

Departments	Major Syllabus reformations done (Introduction of New paper)
Geology	<ul style="list-style-type: none"> Mineral Exploration and Engineering Geology in Sem. III from the session 2015-16
Microbiology	<ul style="list-style-type: none"> Biostatistics in Sem. II from the session 2012-13 Biochemistry in Sem. II from the session 2015-16 Biophysical Techniques and Instrumentation and Food and Dairy Microbiology in Sem.III from session 2015-16
Biotechnology	<ul style="list-style-type: none"> Biomolecules in Sem. I from session 2015-16
Geography	<ul style="list-style-type: none"> Retitling of a paper in Sem. III as Regional Geography of a Meso Region of World with reference to South East Asia from session 2015-16
Pol. Science	<ul style="list-style-type: none"> Public Administration in 21st century and Political Sociology in Sem. II from session 2015-16
History	<ul style="list-style-type: none"> Political and Administrative History of India in Sem. II from session 2015-16 Constitutional History of India in Sem. III from session 2015-16 Indian Constitution in Sem. IV from session 2015-16
Zoology	<ul style="list-style-type: none"> Animal Physiology is introduced in M.Sc. Sem (IV) From the session 2015-16.

1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

The institute strives to bridge the gap between academia and industry through certain value-added programmes, keeping in pace with the needs of changing market scenario. The courses like B.Com. with Computer Application, PGDCA, BCA, B.Sc. with Computer Science, Electronics, Industrial Chemistry, Biochemistry, Microbiology, Biotechnology are some of the value-added courses offered by the college. Apart from this Solar Training Programme in collaboration with SINE, IIT Bombay, Training-cum-workshop on Remote Sensing and GIS in collaboration with CCOST, Training Programme on Banking, Finance and Insurance for ST students, Certificate Programme on open-source Computer-Languages in collaboration with IIT Bombay, under the aegis of MHRD, Spoken English Programme are the value-added programmes carried out by the college.

1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

Two Vocational Training Programmes (VTP) viz Junior Marketing Associate and Retail Marketing Associate have been approved by Chhattisgarh State Skill Development Agency (CSSDA), of which one has been initiated by the institution recently. More such programmes have been devised in consonance with the regional requirements.

In addition, various departments have conducted skill based training programmes for enhancing employability of the students. Some of the recently conducted programmes are as follows:

S.No.	Name of the Department	Programmes
1	Physics	National Seminar on Non Conventional Energy Sources–“Energy Harvesting Materials for Sustainable Development”
2	Chemistry	Seminar on Green Chemistry
3	Mathematics	Madhav Maths for UG students and Maths Olympiad for HS School Students
4	Microbiology	07 days Hands on training on rDNA Technology and Instrumentations
5	Geology	Training on Remote Sensing and GIS

6	Economics	National Seminar on Environmental Cost of Economic Development
7	Political Science	Seminar on Women Empowerment
8	History	Making Replica of Ancient Figurine
9	Biotechnology	Training on Bioinformatics
10	English	Workshop on Communication Skills

1.4 Feedback System

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

A feedback format is designed and developed by College IQAC for students, parents and alumni respectively. The formats get filled and collected by a group of faculty members, an analysis report is made and communicated to the respective departments during meetings.

There is a provision of Academic Audit in the college. Annual reports are submitted by the departments, which is evaluated by internal as well as external members. An evaluative report with numerical markings and indicative measures are communicated to the departments and State govt. of Chhattisgarh (under the scheme of *Panchmukhi Yojna*).

Inclusion of new chapters, revision in lab courses, evaluative pattern and other specific measures in the curriculum is done after it is reviewed and approved by the Board of Studies considering the feedback received from the students particularly of PostGraduate. Changes in the curriculum are communicated to the students.

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same- (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

Faculties from different institutions across the nation are involved in Syllabi formation as Subject experts. Tentative syllabi are sent out and the feedback received is considered and presented to members of the Board of Studies. Feedback from external examiners also conveyed to the respective departments which helps to make revisions in the curriculum. All Syllabi are uploaded on College website and serve to get feedback from other interested academicians. The faculty members have linkages with national and international institutes and subject experts and their views serve as feed back to update the curriculum. In 2014 IQAC of the institute organized a seminar on Quality Education, under the aegis of RUSA a workshop on Teaching-Learning Evaluation and Curriculum Reforms was conducted in 2015, similarly a workshop on Best Practices for Quality

Education was held in 2016, in order to reform and update curriculum and other aspects of higher education.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

Specific learning objectives are clearly spelt out along with the syllabus for each subject by the respective Board of Studies. The quality of the curricula being developed is continuously reviewed by the members of the department and the Board of Studies. The alumni, who are working in industry or in academic circles, give feedback which is useful in staying to match the world standards. Links with reputed institutions and organizations help to enrich the curricula. For instance, our students are encouraged to take summer internships in industry and short term academic exposure for project work at some of the best Universities or Institutions. Participation of the Faculty members in national and international seminars or conferences provides academic exposure. Their insightful experiences in the form of feedback help in updating our curriculum.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

The College makes strenuous efforts to supplement the curriculum by organizing academic and co-curricular and extracurricular activities which ensure the effective development of the curricula. Some of the measures for quality sustenance and quality enhancement are as follows:

1. The IQAC of the college releases the performance index of the all the departments through Academic Audit yearly, which functions as a benchmark for ensuring quality in teaching and learning.
2. Formal and informal feedback from all the stakeholders is received and analyzed assessing the need; specific measures are taken to reform and reconstruct the curriculum. The popularity and active participation of students in various programmes help in future designing of the curriculum.
3. Workshops and seminars on quality education and sustenance are frequently organized in order to get exposure to the emerging trends and strategies for developing the curriculum.

4. New self financing, skill based courses have been incorporated into the curriculum based on the feedback and need assessment in the market for job opportunities.

Any additional information regarding Curricular Aspects, which the institution would like to include.

The institution, keeping in view the societal, industrial, and regional challenges in the fast changing economy is making efforts to inculcate and foster global competencies in students through employing and implementing new courses. This is reflected in the self financing, skill based and value added courses in the curriculum. The college envisions to implement CBCS scheme for horizontal and vertical mobility of the students.

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The college website offers information apropos the various courses available, the detailed syllabi and the process of admission. The college prospectus enables the applicants to understand unique features and importance of the institution. The prospectus includes the admission form which provides information about the selection of subjects in the stream in which admission is to be sought, the college profile and to the details about the admission process. The notices regarding admission processes are displayed on the notice boards, displayed board, in addition, newspapers also give wide publicity to the First Year Degree and Postgraduate Degree admission process.

The college ensures transparency in its admission process by displaying the merit list based on the government norms and displaying the list of selected candidates on the notice board and website of the college.

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?

The admission process is conducted as per the university and government rules. It is purely based on merit. The score of the students in the +2 examinations is considered for their admission in the first year. The score of the university examination of the first and second year is taken into account for the admission for the second and third year respectively. The class-wise admission committees are formed every year, which work under the supervision of the Principal. In PG classes, admission is done through counselling and is based on merit. As far as admission in Ph.D programmes are concerned, it is mainly done through the entrance examination conducted by affiliating University that is Pt. Ravishankar Shukla University, Raipur every year. From the current academic year online admission process has been adopted by the college at UG and PG level.

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

There is a mechanism to review the admission process and student profile. The college adopts inclusive approach to accommodate students from rural and urban areas belonging to all strata of the society. To review the admission process, class-wise admission committees are formed every year, which work under the supervision of the Principal. These committees prepare the merit list of students. The members of the admission committees guide the students in selecting the subjects/papers and testimonials. A Help Desk in the college is also available for new students. The student profile is prepared every year by the office and is made available to the Autonomy Cell and various departments for result analysis.

The admission process is transparent and is made convenient to all the students of different categories. The outcome of the process is that the whole process is carried out efficiently by the institution.

2.1.4 What are the strategies adopted to increase/improve access to students belonging to the following categories

*** SC/ST**

*** OBC**

*** Women**

*** Different categories of persons with disabilities**

*** Economically weaker sections**

*** Outstanding achievers in sports and extracurricular activities**

- With a view to increase access and to provide equal opportunities to all sections of society, the college provides reservations and relaxation in qualifications for admission to SC/ST/OBC/differently abled students as per the policy of the Government of Chhattisgarh.
- Women candidates are given 30% reservation in all the categories.
- The economically weaker students, admitted in the college under Below Poverty Line (BPL) scheme get scholarships and relaxations in fees as per govt. norms.
- Scholarships are available to all eligible SC/ST, OBC, BPL and minority students.

- Additional weightage of percentage is given to outstanding achievers in sports and extracurricular activities having national, regional or international certificates.
- Naxal affected ST students from Bastar (Chhattisgarh) are given special attention and are admitted with due preference as per CG Govt. policy.

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

The details of students admitted in last four years are as follows:

Year 2012-16

Categories	Year 1 2012-13		Year 2 2013-14		Year 3 2014-15		Year 4 2015-16	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	266	192	284	248	262	216	192	191
ST	238	175	303	258	227	193	198	212
OBC	919	559	924	618	1127	850	1161	913
General	687	630	632	697	600	766	620	769
Others	-	-	-	-	-	-	-	-

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase/ decrease.

The inclination of students towards a particular course is judged by the number of applications received by the respective departments and on its basis the administration applies for affiliation to the University for new courses an increase in the number of seats. It is noticeable that the seats in PG and UG courses have been increased in last four years based on the demand analysis conducted by the college administration.

The details of demand analysis for the session 2015-2016 are given below:

Programmes	Number of applications	Number of students admitted	Demand Ratio
UG :			
1.B.A	553	430	1:1.28
2.B.Sc	1745	881	1:1.98
3.B. Com	517	425	1:1.21
4.BCA	132	60	1:2.20
PG :			
1.M.A HINDI	42	27	1:1.55
2.M.A ENGLISH	53	25	1:2.12
3.M.A HISTORY	28	16	1:1.75
4.M.A POLITICAL SCIENCE	39	25	1:1.56
5. M.A GEOGRAPHY	48	23	1:2.08
6. M.A SOCIOLOGY	17	09	1:1.88
7. M.A ECONOMICS	22	13	1:1.69
8. M.Com	143	86	1:1.86
9. M .Sc PHYSICS	84	25	1:3.36
10. M. Sc CHEMISTRY	154	25	1;6.16
11. M.Sc. MATHEMATICS	122	51	1:2.55
12. M. Sc GEOLOGY	15	08	1:1.87
13 M .Sc BOTANY	113	25	1:4.52
14 .M.Sc. ZOOLOGY	95	23	1:3.88
15.M.Sc MICROBIOLOGY	45	18	1:2.35
16. M. Sc BIOTECHNOLOGY	61	18	1:3.15
17. M. Lib AND I. Sc	27	15	1:1.80
18. PGDCA	204	98	1:2.22
Integrated Masters	NA	NA	NA
M .Phil.	NA	NA	NA
Ph.D.	NA	ADMISSION DONE THROUGH ENTRANCE TEST CONDUCTED BY AFFILIATING UNIVERSITY	NA
Integrated Ph.D.	NA	NA	NA
Certificate	NA	NA	NA
Diploma	NA	NA	NA
PG Diploma			
1.PGDCA	225	90	2.5:1
Any other (please Specify)	-	-	-

2.1.7 Was there any instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

No, there wasn't any instance of the College discontinuing a programme during last four years.

2.2 Catering to Student Diversity:

2.2.1 Does the College organize orientation/induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

In the beginning of every academic session, IQAC of the college conducts 'Induction Programme' for freshers. The induction programme is organized faculty wise. The Principal of the college, members of IQAC and Heads of the departments also participate and share relevant information with newly admitted students. The main features of the Induction Programme are as follows-

- Information regarding discipline, curriculum, examination pattern, academic, extracurricular and extension activities is provided to freshers.
- The college provides details of rules and regulations, schedule of examination, schedule of activities, evaluation procedure, attendance and other significant information to students.
- Information about career guidance, campus interview, personality development, library and free internet Wi-Fi facility is also provided to newly admitted students.
- Counseling for the PG students is provided by faculty members of concerned departments.
- Induction cum Welcome program is organized in each post graduate department where final year students organize activities to involve the fresher's and make them comfortable in the department.

2.2.2 **Does the College have a mechanism through which the “differential Requirements of student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

Parent Teacher Student Association : PTSA of the college is actively involved in the mentoring of the students in small groups. The profile of the student, their socioeconomic status, aptitude and their overall performance is analyzed and reviewed by the parent teacher. The students who have potential are selected for special assistance. The students are guided by the faculty regarding various career oriented courses, competitive examinations, future career options, and special choice-based subjects in the beginning of each academic year.

Career Guidance Cell: Career and Guidance Cell takes care of the employment related special needs of the students according to their aptitude and potential.

Women Cell: Women cell takes care of the special needs of the girl students, all facilities which is necessary for girls available at the rest room. The cell also organizes various programmes throughout the year to update girls for their rights, legal powers, securities and motivate them to strive towards empowerment.

Equal Opportunity Cell for differently abled students: There is a Creation of Equal Opportunity Cell in the college to look after for differently abled students according their special needs. The cell is active throughout the year and organizes several activities. The college has differently-abled students and has developed a mechanism to cater to their needs. Keeping in view the special needs of differently-abled students for their mobility and independent functioning, the college ensures that all existing structures as well as future construction projects in the campus are made disabled friendly. The institute has special facilities such as ramps, wheel chair to suit the special needs of differently-abled students. Braille books are available in the central library. The differently-abled students are specially taken care of by the teachers who guide them to deal with psychological, social, academic and personal problems if any.

2.2.3 Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Bridge courses : The college provides Bridge course of Mathematics to the students of non mathematics group for BCA degree course special classes are being taken by Mathematics teacher.

Add-On Programmes: Short term , topic specific courses of 2 to 25 days duration were conducted time to time, some of them solar energy, remote sensing, communication skills, banking, financing and insurance etc. The institute strives to bridge the gap between academia and industry through certain value-added programmes, keeping in pace with the needs of changing market scenario. The courses like B.Com with Computer Application, PGDCA, BCA, B.Sc. with Computer Science, Electronics, Industrial Chemistry, Biochemistry, Microbiology, Biotechnology are some of the value-added courses offered by the college. Apart from this Solar Training Programme in collaboration with SINE, IIT Bombay, Training-cum-workshop on Remote Sensing and GIS in collaboration with CCOST, Training Programme on Banking, Finance and Insurance for ST students, Certificate Programme on Open-ware Computer-Languages in collaboration with IIT Bombay, under the aegis of MHRD, Spoken English Programme are the value-added programmes carried out by the college.

Remedial Classes: The college attempts to bridge the gap between students through the Remedial Coaching. To enrich the knowledge of the students, the college organizes guest lectures, students seminars, projects, and special permission for the advanced and final year degree students to have open access into the stack and periodical sections of the library. The personal counseling is also given to the students. Remedial classes are organized after the completion of daily routine timetable. These classes are organized mainly for undergraduate students.

2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

The College admits visually challenged and differently abled students in certain Departments. These students are given extra care and attention by the course teachers to enable them to learn and perform better. To improve

the basic language skills of the students, the English Department conducts short term workshops and classes in language lab .

Repeated tests are conducted to make them thorough with the subjects. Certificates from economically backward students are collected at the time of admission so as to examine the authentic need for scholarship.

Students feed back mechanism has also helped to understand issues concerned with students. Tutor ward system has been introduced to improve the caliber of the students. Economically disadvantaged students are offered scholarships. The overall performance of the students are constantly monitored. Special attention has been given to disadvantaged, economically disadvantaged, physically otherwise challenged and slow learners. Remedial classes are offered for those slow learners and also for those who have failed in the continuous assessment examinations.

2.2.5 How does the institution identify and respond to the learning needs of advanced learners?

Advanced learners are identified through tests, seminars, debates and home assignments. In order to help the advanced learners and to improve their aptitude and talent, the following initiatives are taken:

- They are encouraged to take part in various inter college and in campus competitions.
- The advanced learners are motivated to take care of the slow learners by forming small study groups.
- They are guided to attend the UPSC/PSC/Railway/Banking coaching classes conducted by the College in coordination with NGO named as “Jan Unnayan” which is formed by group of professors.
- Coaching for NET / SLET and other competitive exams are also provided to the advanced learners.
- In order to develop leadership qualities in advanced learners they are nominated as members of different associations and committees that cater to curricular, co-curricular and extra-curricular activities. This gives opportunity to every student to excel and enrich themselves.
- The faculty guides and closely monitors them. Advanced learners are given special projects and assignments beyond the syllabus
- Advanced learners are promoted to prepare presentations in class to motivate other students.

2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institute has a very congenial environment for the differently abled students. The following measures are taken to help them:

- Reservation is strictly followed to provide admission to the differently abled students.
- The differently abled (visually challenged and physically challenged) students are given special attention by providing them learning aids.
- The students are encouraged to participate in various orientation programmes conducted in professional organizations.
- Braille books are available in the Central Library to meet the demands of the visually challenged students.
- Ramps are constructed in the college buildings to help them.
- Wheel chair facility is provided to them.
- During examinations seating arrangement is made in the Ground floor for their convenience.
- Differently abled students are given scribes during the examination and they are also given extra time to complete their examination.
- Equal opportunity is given to these students in cultural as well as in extra curricular activities.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

Evaluation Blue Print: Autonomy has been used as an opportunity to bring changes in the teaching- learning and evaluation methodology. The syllabi are regularly updated. In addition to traditional teaching methods, use of power point presentation, assignments, project work, seminars, group discussion have been made compulsory in PG classes. The question paper pattern has been revised recently, including word limit , objective, short answer and long answer questions from each unit. The evaluation pattern and exam schedule is publicized to all students in the beginning of the academic session through Induction Program, notice boards and college prospectus. Each department has its Board of Studies (BOS) . It is mandatory to hold BOS meeting in each academic year thus giving an opportunity to review the academic content, question paper pattern, examination system etc. Evaluation of students' knowledge through classroom /laboratory learning is a major component of evaluation. The college follows a structured evaluation pattern for UG courses. The schedule for all college internal /Terminal examinations is prepared well in advance and displayed on notice boards as well as on the college website.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

The College provides course outlines and course schedules prior to the commencement of the academic session, which are as follows:

- Course outlines are provided through syllabus, college website and regular announcements.
- Course structure and syllabus are made available to each department and the library also.
- The college prospectus contains information about the regulations and course requirements.
- The college website is updated regularly.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

Most courses in Arts and Humanities predominantly follow the lecture method while the Science and Computer Subjects, as per the demands of the course content give adequate attention to practical and laboratory classes as well.

Interactive Teaching Tools: Apart from the conventional class room interactions, students are engaged in seminar, poster and power point presentation, field and industrial visits. Seminar, project work, home assignments and power point presentations and these are an integral part of the syllabi in all the PG departments.

Socio-economic surveys: These surveys are a part of the project work done by the PG departments in Arts and Humanities. This not only generates a huge database on socio economic scenario, impact of Govt. policies on society and the status of the marginal section of the society, but also provides an opportunity to the students to interact with the society.

Extension activities are a regular feature of the academic societies of the teaching departments, which provide students an opportunity to get connected with the ground realities of the society in the neighbourhood.

The film society of the institute shows films based on social issues, ethics, value-education to enhance the learning experience of the students.

Field and Industrial visits: Field and industrial visits provide opportunity to acquire knowledge and skill to the students so that they could enrich their learning experience.

Enrichment Programmes: The celebration of special days, training programmes, skill development workshops etc. are organized throughout the year apart from the regular classes, which provide an opportunity for the overall development of the students.

2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Students actively participate in a myriad of academic activities like class room seminars on chosen/assigned topics, exhibition of course related lessons, theme based poster presentation and field visits. Steps taken by the college to create a learner centric environment are as follows:

- Project-based learning
- Home assignments
- Seminar presentation through power point
- Poster competition on various events World environment day/ Earth Day and other important days as declared by UNO are celebrated in college for providing platform to students.
- Quiz competition
- Model creation and exhibition
- Society oriented programmes by the units of NSS, NCC and YRC

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?

It is a policy of the college to invite experts on spectrum of areas to motivate and guide students in the pursuit of their respective academic and professional interest. Renowned personalities from all walks of life like scientists, consultants, businessmen, writers, actors and entrepreneurs are invited in the campus to interact with the students.

Department	Year	Topic	Name of Researcher
Chemistry	2012	Analytical techniques	Prof. Gulshan Relhan from BARC, Mumbai
	2012	Role of Chemistry in Forensic Science	V.P. Maithil, Forensic Scientist Director, Chhattisgarh State
	2012	Transition Metal Complexes and Group Theory	Dr. R.N. Prasad, Professor, Chem. Dept., Rajasthan University, Jaipur
	2013	Medicinal Plants and Narcotic Drugs	Shri K. Subramanyam (Faculty Chemistry), Chief Conservative Forest and Narcotics and Controller Vyapam

	2013	Bent rule and Walsh Diagram (Group Theory)	Dr. N.P. Singh, Allahabad University
	2015	Big research- better writing	Dr. Rajnikant Sharma (Alumni member), Senior Scientist, CWC Nagpur
	2015	Co-ordination Chemistry	Dr. H.N. Dubey Dist. Co-ordinator Pt. Sundar Lal Sharma Vishwavidyalaya
	2015	Material Science	Prof. Dinesh Varshney , Devi Ahilya Bai University Indore
	2015	Mass Spectroscopy	Dr. Hemlata Mahobey, Ret. Principal and Subject Expert, Chemistry
	2016	Stereochemistry	Dr. P.S. Kalsi, Ludhiana University
Biotechnology	2016	Genetics	Lecture by Dr. Lalji Singh (Former Bhatnagar Fellow, CSIR), Managing Director, Genome Foundation, Hyderabad. Former Director, CCMB, Hyderabad, & Former Vice-Chancellor, Banaras Hindu University, Varanasi
	2016	Chemistry for sustainable development	Lecture by Dr. J.S.Yadav (CSIR Bhatnagar Fellow & J C Bose Fellow) Pharma Director, CSIR-IICT,Hyderabad,India.
	2014	Guest lecture on "Nanotechnology".	Dr. Pranveer Singh
	2014	Guest lecture on "Biostatistics".	Dr. A.K.Pati
	2014	Guest lecture on "Mycology:Bioindicator of Pollution".	Prof. S.K. Jadhav
	2015	Guest lecture on "Prospects of Bioscience".	Dr. Prakash S Bisen
	2015	Guest lecture on "Intellectual Property Rights"	Dr. S.S. Sandhu
	2015	Guest lecture on "Bioinformatics".	Mr. Dilip G. Gore

	2014	Guest lecture on "Proteins".	Dr. Rizwan Hasan
	2014	Guest lecture on "Molecular Biology".	Dr. Abhijeet banerjee
English	2011	Toru Dutt- A Poet.	Dr. A. N. Dwivedi
	2011	Phonetics and the Mechanics of English Language	Dr. Chhittaranjan Kar
	2015	Phonetics and English Phonology	Dr. Chhittaranjan Kar
	2015	T.S. Eliot's <i>The Waste Land</i> and Bharat's <i>Natyashastra</i>	Dr. Uma Ram
	2015	Colonial Studies	Dr. J. P. Sao
	2016	Edward Said's Orientalism and Henrik Ibsen's <i>A Dolls House</i>	Dr. Uma Ram
	2016	Psycho Analytic Insight into the Study of Literature	Dr. Rachita Shrivastav
Geology	2012	G.I.S. softwares ERDAS and ILVIS	Dr. Benidhar Deshmukh, Associate Professor, IGNOU, New Delhi
	2013	"Climate change".	Prof. Jon Harbor, Purdue University, USA
	2013	Gems and Gemology	Dr. Sandeep Vansutre, Assistant Professor, Govt. Science College, Raipur
	2013	Personality Development	Prof. R.K. Choubey, HOD Sociology Department
	2014	Groundwater Exploration and Resitivity Survey	Dr. K. Panigrahi Hydrogeologist
	2014	Application of remote sensing and G.I.S. in Geology	Professor Shailesh Chaure, Holkar Science College, Indore
	2014	Petroleum Exploration and Oil Traps	Mr. Anshuman Tiwari and Mrs. Shweta Tiwari, Petroleum Geologists, British Petroleum
	2014	Communication Skills	Prof. Amrita Kasture, Department of English, Govt. PG College, Bhilai-3
	2015	"Scope and importance of Geology"	Professor Greg Shellnutt, Taiwan University
	2015	Fundamentals of Geology	Shri Niteesh Dutta, Retired Director General, Geological Survey of India

	2015	Geology apps for smartphone users	Prof. Ramesh Joshi Department of Geology, Govt. P.G. College, Jagdalpur
Psychology	2015	Positive Psychology	Dr. Debjaani Mukherjee
	2014	Understanding Abnormal psychology	Dr. Usha Mahobe
	2014	Psychology: Its relevance, opportunities and applied aspects	Dr. Debjaani Mukherjee
Botany	2016	Biodiversity	Dr. Veena Pani Dubey (Prof. & Head dept of Botany C.M.D. College Bilaspur)
	2016	DNA Technology, Cloning, DNA microarray, DNA fingerprinting	Dr. D.K. Shrivastava (Science College Bilaspur)
	2015	Cytogenetics	Dr. N. B. Singh (Science College Raipur)
	2015	Techniques in tissue culture	Dr. Rupinder Diwan (Science College Raipur)
	2014	Photobiology	Prof. P.C. Panda (Retired Prof. Durg)
	2014	About Medicinal Plants	Prof. Utkarsh Ghate (Scientist, UNDP, Green medicine/village herbs)
	2014	Melatonin	Dr. Suman Kumar Maitra (Prof. of Zoology Visva Bharti University)
	2013	Genetics	Dr. V. K. Kanoongo (Science College Raipur)
	2013	Plant pathology	Dr. N. B. Singh (Science College Raipur)
	2013	Biodiversity and its conservation	Dr. Veena Pani Dubey (C.M.D. College Bilaspur)
Zoology	2011	Fresh water sponges and Hill Stream Fishes	Dr.S.K.Dutta
	2011	Consequences of unhealthy sleep	Dr. R. K.Pradhan
	2011	Role of hormones in metabolism of carbohydrates	Dr.M.M.Roy
	2014	Origin of Life	Dr.Ashish Jha

	2013	Fish Farming	Dr.H,N.Sharma
	2015	A lecture on legal issues and human rights	Radhika Saini
	2015	Endocrinology	Dr.Ajit Hundait
	2016	Reproductive Biology	Dr.Seema Gupta
Anthropology	2016	Career Counselling	Dr. Jitendra Kumar (Pd. R.S.U, Raipur)
	2016	Thoughts in Anthropology	Dr. Shailendra Kumar (Pd. R.S.U, Raipur)
Geography	2014	Lecture On History Of Cartography,	Prof. H.S. Gupta Ex. Chairperson, Sos In Geography, Pt. Rsu Raipur
	2015	Lecture On Remote Sensing	Prof. S.K. Pandey, Head, Sos In Geology , Pt. R.S.U. Raipur.
		Lecture On Remote Sensing	Prof. S. Chaure, Deptt of Geology, Holkar Science College, Indore

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

More than 70% of the faculty members are well acquainted with use of ICT during class room teaching. Some of the technologies used by faculty members are as follows-

- LCD projector
- Lectures through Power point presentation
- Subject based video films
- Use of mobile sharing for information with students
- E journals
- Language lab and Commerce Lab
- Whatsapp groups are also formed which is used to share latest updates and useful information on the subject.

2.3.7 Is there a provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

The college has system of guiding students at different levels.

- Academic advice is provided at various levels right from the choice of subjects at the time of admission to the selection of projects by the faculty members.
- Based on their previous academic records and performance, the weaker students are identified and are given special attention to improve performance in phase tests and assignments .
- After admission, the Principal's address during the induction program provides glimpses of distinctive characteristics of the college infrastructure/facilities available, glorious traditions of the college and eminent alumni.
- Fast learners are given counseling to pursue coaching for competitive exams and research. Students are counseled to apply for research projects, research paper and summer research projects.
- Professor in charge of each class assist in personal/ family/ emotional/ gender issues.
- College has a psycho-socio counseling center also.
- Career counseling is provided via aptitude, intelligence and personality testing.
- Approximately 15% students are benefitted.

2.3.8 Are there any innovative teaching approaches/methods/ practices Adopted /put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Apart from traditional methods some of the practices used by faculty members are - Faculty use 3D models, Power point presentations, Group discussion, Field visit, Industrial visit, Institutional visit, problem solving, case study methods, seminar presentations by students, student projects, guest lecturers etc. The efficacy of such practices are assessed and examined through student feedback system.

The creativity of the students is kindled by encouraging them to write in the college magazine ' Vyanjana' and publish their project outcomes as research articles in 'Research Expression', the research journal of our college. Many departments send their students to other research organizations like CGCOST, DST, ZSI, GSI, NEERI etc., for knowledge sharing during their summer vacation. Students are motivated to participate and present papers in national and international forum.

The Internal Quality Assurance Cell monitors the annual evaluation of the teachers by students. A questionnaire is prepared and distributed to all the students to give their feedback on their teachers, course contents, library and administration of the college. This is done on a 4 point scale and the outcomes are informed to the respective staff for further improvement. College administration also recognizes them through awards/felicitation.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

- Our college strongly makes efforts for promoting creativity and scientific temper among students.
- Systematic and time bound strategies have been adopted in this regard- the question paper format, assignments, seminars, projects, on line journals, WiFi facility, instrumentation, co-curricular and extra-curricular activities offer such opportunities.
- Workshops are organized to promote entrepreneurship among students.
- Science day celebrations and exhibitions provide excellent opportunity to students to display their talents and creativity.
- Students projects, seminars, research projects are few opportunities for nurturing creativity, innovation and scientific temper.
- Street plays, annual college magazine and wall magazine provide opportunity for creativity.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

The College considers student projects a mandatory part of the all Post graduate programs (Arts, Science & Commerce) At UG level also a project on Environmental Studies is made compulsory for all students.

- **Number of projects executed within the College.**
Approximately More than 300 post graduate students of different faculties complete their assigned project every year.
- **Names of external institutions associated with the College for student project work**
 - National Institute of Health and Family Welfare, New Delhi

- National Environmental & Engineering Research Institute, Nagpur
 - Chhattisgarh Council of Science & Technology, Raipur
 - Pt. Ravishankar Shukla University, Raipur
 - Central Ground Water Board, Durg
 - Water Treatment Plant, Durg
 - Bhilai Steel Plant
 - Nitza Biologicals Hyderabad
 - Central Institute for Agriculture Engineering, Bhopal
 - Dev Leela Biotech, Raipur
 - Indira Gandhi Agriculture University, Raipur
 - Govt. Veterinary College, Anjora, Durg
 - C.L.Chandrakar Hospital Bhilai
 - Pt. J.L.Nehru Hospital, Sector 9, Bhilai
 - Pt. J.L.Nehru Medical College, Raipur
 - Govt. E.R.R. Science College, Bilaspur
 - Shri Hargovind Institute of Research Scientists, Jabalpur
 - Institute of Oceanography, Goa
 - ATG Lab Pune
 - Sai Bioinfosis, Nagpur
 - Aditya Biotech, Raipur
 - Ethia Pharma, Bilaspur
 - Dr. Reddy's Lab, Hyderabad
 - Central Institute of Tasar Research & Training
 - Central Silk Board Ranchi
 - Centre for Sericulture and Biological Pest Management, RTM University, Nagpur
 - Central Cotton Research Institute, Nagpur
 - Institute of Life sciences, Bhubneshwar, Odisha
- **Role of the faculty in facilitating such projects**
- The faculty members are the project guides who facilitate the students through following means-
- Ascertaining the feasibility of student project proposal.
 - Helping the students to finalize the project.
 - Guiding the students during the execution of the project.
 - Helping the students during analysis and interpretation of data.
 - Enabling the students to write project report, facing the viva voce and publishing the results.

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer-aided teaching/ learning materials? What are the facilities available in the College for such efforts?

- The faculty members and technical staff of Department of Computer Science assist the faculty in learning and handling computer aided teaching materials.
- Desktop / Laptop computers along with Scanner and printer have been provided to various departments.
- Free Wi-Fi internet facility has been provided in college campus.
- Soul software, N-List, Shodh Ganga and other E journals are provided in the central library.
- LCD Projectors are fitted in the seminar halls for ppt presentation by faculty members and research scholars/ students.
- Three smart classrooms are also available in the college.
- Language lab with facility of modern equipments and software is also available.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Yes, Regular Students/ Alumni give feedback for evaluating the teachers once in academic year. It is done without revealing the identity of students. These feedback forms are analyzed by IQAC under the guidance of Principal. Feedback received from students is conveyed to concerning teacher for improvement. Feedback from alumni is taken by IQAC. During the meetings of Board of Studies the members give feedback and suggestions on curriculum. This practice is very helpful in achieving qualitative improvement in the teaching learning process.

2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

Yes. Sometimes due to compulsory duty of faculty members assigned by local district administration in Parliamentary/Assembly/Municipal Corporation/ Panchayat elections, our institution face challenges in completing the curriculum.

The college has a well sketched out plan for completing the curriculum within the time frame and calendar. If it fails to do so then measures like arrangement of extra classes/Tutorials/Remedial classes for the students are done so that the students are benefitted.

2.3.14 How are library resources used to augment the teaching-learning process?

The College has a well equipped library with more than one lakh books. Besides this, PG teaching departments have departmental libraries. Text books/reference books/ journals/ newspapers/ magazines along with facility of N LIST, Shodh Ganga and other E journals are available to be used by both faculties and students in the central library. The new arrivals in the library are put up as a list in the library notice board. A well developed reading room studded with books for general reading, news papers, current affair etc. motivates students to make use of the library as much as possible. The transaction is automated. Open Access system, Reading room, reference room has also been provided in library with a view to augment teaching learning process. E resources, LED TV and video lectures are also available in the library. Weekly quiz competition is held in the library to enhance the general awareness of the students. Best library user prize is also given every year.

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance?

The quality of teaching has always been the priority of our institution and to evaluate and monitor it, the following steps are undertaken:

- Feedback from regular students/Alumni/ Parents.
- Appraisal Performance Index and Performance Based Appraisal System
- Informal feedback from students, peers and industry
- The feedback system serves as a parameter to assess, analyse and improvise the quality of teaching, evaluation and overall academic environment of both the teacher and the taught.
- Regular departmental meetings are held to discuss related issues and follow-up actions are taken.
- Continuous monitoring of students performance is also done through class tests, assignments, seminar presentation, terminal exams, model tests.
- Special attention is provided to those students who needs improvement in their performance.

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

The total faculty strength of the college is 102. At present 80 positions are filled. Out of these 80 faculty members 19 members are from outside the states.

2.4.2 How are the members of the faculty selected?

As our college is a government college under Chhattisgarh state government, the faculty recruitment is done by the Department of Higher Education, Govt. of Chhattisgarh .New recruitment is done through Chhattisgarh Public Service Commission Examination. Minimum percentage in UG and PG, qualification, NET/SET or weightage to Doctorate degree holders are as per UGC norms.

2.4.3 Furnish details of the faculty

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt. -	--	-	-	-	-	-	-
Ph.D.	10	18	-	-	12	28	68
M.Phil.	-	-	-	-	-	01	01
PG	-	-	-	-	06	05	11
Temporary teachers							
Ph.D.	Not applicable						
M.Phil.							
PG							
Part-time teachers							
Ph.D.	-	-	-	-	01	04	05
M.Phil.	--	-	-	-	03	03	06
PG	-	-	-	-	05	11	16

2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

Among the regular faculty members, approximately 6 percent are UGC/CSIR/NET/GATE/SET qualified.

Approximately 10 percent of the total regular faculty members are with PG as highest qualification.

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
Physics	25%	50%	25%	-
Chemistry	14 %	56%	28%	-
Botany	-	56%	44%	-
Zoology	-	60%	40%	-
Mathematics	60%	100%	-	-
Geology	-	50%	50%	-
Microbiology	50%	50%	-	-
Biotechnology	-	100%	-	-
Geography	-	100%	-	-
Hindi	42%	44%	14%	-
English	36%	14%	50%	-
Economics	50%	50%	-	-
Sociology	50%	50%	-	-
Political science	-	67%	33%	-
History	-	67%	33%	-
Commerce	-	100%	-	-

Anthropology	-	100%	-	-
Psychology	-	50%	50%	-
Computer Science	-	100%	-	-
Sanskrit	-	-	-	-
Library	-	-	100%	-
Sports	-	100%	-	-

2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

Yes, at present our college have 80 regular faculty members in Arts , Science and Commerce disciplines. In our college there is a facility of PG courses in 17 subjects along with PGDCA. At undergraduate level B.A., B.Sc, B.Com, B.C.A. and B. Lib I. Sc. are available. Six faculty members were appointed through Chhattisgarh Public Service Commission in the college in the last four years. Every year state govt. appoints Temporary Guest faculty for one academic session to fulfill the requirements. In addition to this, the Janbhagidari Samiti also appoints part time faculty members for teaching. In the current year 2015-16 Janbhagidari Samiti provided salary to 26 part time faculty members.

2.4.7 How many visiting Professors are on the rolls of the College?

One

2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/international conferences/Seminars, in-service training, organizing national/international conferences etc.)

The policies/systems which the college places to recharge teachers are :

- The college encourages the faculty to pursue regular academic research, work on research projects, to attend orientation and refresher courses, present research papers in international/national/ regional/ state level seminars.
- Special leave is provided to faculty members for the purpose.

- The college publishes an annual multidisciplinary journal with ISSN number, where faculty members and research scholars can publish their work.
- In service training are conducted in and outside the college.
- Teaching staff are also encouraged to avail Faculty Improvement Program (FIP) for doing Ph.D.
- The college also has infrastructure to host seminars and conferences.
- In last five years, 01 International , 23 National and 14 District level conferences/ workshops/ seminars were organized by the college.
- There is a research cell in our college which motivates the faculty members to take up minor/major research projects and national/international fellowships/ research awards/ travel grants for participating in conferences.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

S. No	Name of Faculty Member	Name of Department	Details of award	Year
1	Dr. Anil Kumar	Zoology	Belsare Gold Medal	2013
2	Dr. Prashant Shrivastava	Geology	Rajeev Gandhi Excellence Award	2013
3	Dr. Prashant Shrivastava	Geology	Global Teacher Role Model Award	2015
4	Dr Suchitra Sharma	Sociology	Ambedkar award Women empoverment award Dr. Sarvapalli Radhakrishan award	2014 2015 2015

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add

any other programme if necessary)

Academic Staff Development Programmes	Number of faculty
Refresher courses	04
HRD programme	03
Orientation programmes	04
Staff training conducted by the College	14
Staff training conducted by University/other Colleges	07
Summer / winter schools, workshops etc.	02
Any other (please Specify)seminars/ workshops District/State /National/ international conferences	76

2.4.11 What percentage of the faculty have been invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies ; participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies ; presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies ; teaching experience in other universities/national institutions and others ; industrial engagement ; international experience in teaching.

- Approximately 34% of the total faculty members are invited as a Resource person/Key-note speaker in workshops/ seminars/ conferences organized by external professional agencies.
- Approximately 89% of the total faculty members participated in workshops/seminars/conferences organized by various institutions
- Approximately 58% of the total faculty members participated and presented their research papers in seminars/conferences organized by professional agencies.
- Approximately 18% of the total faculty members are having teaching experience in other universities like Bastar University,

Bilaspur University, Jabalpur University, APS University, Rewa, Lucknow University, Barkatullah University Bhopal etc.

- Some of the faculty members (Approx.34%) from Science Departments i.e Chemistry, Physics, Geology, Microbiology, Biotechnology are having constant industrial engagement related to their subject as well as training and placement.
- Approximately 6% of the total faculty members are having international experience in teaching

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

□ Curricular Development

- The Board of Studies meet is conducted by all the departments to review and update the UG and PG courses.
- The College Autonomous Cell conducts Academic Council meet every year.
- While updating the syllabus, the current needs are taken into consideration. The autonomy scheme has given freedom to the departments for the revision and changes in the curriculum.

□ Teaching-learning methods

- International/ National/ State/ District/ University/ College level conferences/workshops/ seminars/ Training programs related to new innovations in teaching learning for faculty members are organized by the college regularly.
- Similarly faculty members are encouraged to participate in such events organized by other Institutions / Universities.

□ Examination reforms

- Several Examination reforms have been introduced during the last five years.
- Examination Reform proposals received from Heads/ Faculty members are discussed in the Board Of Studies, Examination Cell (Autonomous) and Academic Council meet. After the approval by Academic Council such reforms are implemented.
- Reforms have also been made for question paper setting pattern (Multiple Choice/ Short answer/ Long Answer type questions). The question paper formats have been followed very strictly for internal/ semester/ annual examinations.
- Provision of Answer booklet for limited words have been introduced. Question papers are set accordingly.

- Grading system has been introduced in PG classes in order to meet the requirements at the national and international level.
- Briefing sessions for examination are conducted before the commencement of the examination.
- **Content / knowledge management**
- Most of the departments have free internet facility with wifi system, Computers, Laptops, LCD Projectors, Digital camera, Reprographic facility.
- E library concept has been introduced by installing necessary software in central library. Hundreds of on line journals are available through NLIST, Shodh Ganga soft wares.
- Seminar/ workshops and conferences are regularly organized in the college. Faculty members are encouraged to attend such programs at national and international level and present research papers.
- Faculty members are also encouraged to send proposals for Major/ Minor research projects to various funding agencies.
- Publication of research papers in reputed and refereed journals is also encouraged.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

Autonomy has provided a great opportunity to bring innovative ideas in teaching learning. In fact the primary objective of conferring the autonomous status to rejuvenate the process of active teaching and learning. The examination oriented teaching method has been changed in to interactive and experimental learning. Innovative teaching has facilitated better learning. The students of the college get placement in reputed organizations like HDFC, Vedanta Group, Axis Bank, ICICI, Asian Paints, Aziz Premji Foundation, WIPRO etc. The feedback from the industry has been encouraging. Students of courses from Basic Sciences shown inclination for research studies. The traditional teaching method has been strengthened by several innovative methods for better learning. Dictating notes in the class has been discarded. Teaching has been redesigned in tune with continuous assessment system. A few innovations are as follows :-

- Projects to the students- Students project facilitate interactive teaching.
- E learning methods- IT methods for teaching and learning are used in all the departments. Desktop/Laptop computers and LCD projectors are provided to most of the departments. Chhattisgarh Government has provided free of cost Tablet Computer to students.
- Laboratories have been renovated and upgraded under the “Star college

scheme” of DBT, “CPE” scheme of UGC, “FIST” scheme of DST.

- New concept of “Commerce Lab” has been introduced.
- Field Work/ Industrial visits are important component of the curriculum of some departments. Therefore Field work/ study tours/ industrial visits are organized regularly.
- Sample collection and Data collection through survey has facilitated teaching with the students experience and learning.
- Language Lab- regular English language lab learning classes are organized. Well maintained language lab with necessary softwares has been provided.
- Personality / skill development classes are organized for UG and PG students separately from time to time.

Recognition is given by mentioning his/ her name and innovation in daily newspapers and college annual magazine/ activity reports and reward is given in the annual function of the college.

2.4.14 Does the College have a mechanism to encourage

- * Mobility of faculty between institutions for teaching?
- * Faculty exchange programmes with national and international bodies?
If yes, how have these schemes helped in enriching quality of the faculty?
- Yes, the college has entered in to some MOUs in recent times with the basic objective of Faculty/Students Exchange Program.
- Our teachers are invited as resource persons/ key note speakers/ invited speakers/ Guest speakers in various institutions . Similarly experts from other institutions are also invited to our college.
- In the last five years many prominent personalities/ subject experts/ well known professors/ excellent researchers from abroad and within country visited our college and share their knowledge with students and faculty members.
- Such exchange of faculty will expand the horizon of knowledge expansion, create awareness about new developments, help in updating the curriculum and provide an exposure to the students and the staff .

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

- Evaluation process, is an important component of autonomy so it has been well publicized to all stakeholders.
- The evaluation process are published in college prospectus and website and the tentative dates are given in it The details of the final dates of exams and evaluation process are put on to the notice boards in college as well as communicated to all Heads of Departments and in turn they intimate the departmental faculty members.
- Original Answer scripts of internal and term end examinations and photo copy of main examination are shown to students on demand.
- Any grievance related to examination evaluation process are dealt with by the Grievance Cell.
- The schedule for evaluation given in the Academic Calendar is displayed on notice boards and on the college website.
- Students are informed about the evaluation system at the beginning of the academic sessions, during induction programmes and at appropriate intervals.
- Students are also intimated about the portion of curriculum for the assessment/ examinations, nature and format of question paper and marking scheme of marks.
- Students are provided with question banks, reference material/ books.
- The detailed schedule for examinations for UG programmes and continuous assessment for PG programmes is displayed on the notice boards and is strictly implemented.
- The schedule for examinations is conveyed to the teachers in advance through the “Academic Calendar” uploaded on the college website.

2.5.2 What are the major evaluation reforms initiated by the college and to what extent have they been implemented in the college? Cite a few examples which have positively impacted the evaluation management system?

Credit based semester system is introduced in PG courses. The evaluation has assessment and end semester examinations. The continuous assessment has been done by tests, assignments; seminars so that the students browse the internet learn more than their syllabi and improve their presentation skills.

Students are permitted to apply for revaluation at UG level after obtaining photocopy of answer sheet within 15 days from the date of publication of results. A candidate failed in only one paper in any UG exam is allowed to appear in the supplementary exam. Conducted within one month of the publication of results and the results of supplementary examination is declared within ten days whereas in PG semester system students failed to qualify minimum passing marks are provided with ATKT system. Answer sheets with serial number are issued to students. Mark sheet are issued to UG, PG students with security features.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

Measures taken by the institution includes remedial classes, assignments, activities, counseling of weak students etc. Continuous evaluation of the students is conducted in two steps-

- Semester Term end examinations at PG level and Annual examination at UG level.
- The internal evaluation consists of three major components-
 - i. Internal tests
 - ii. Class attendance and students performance in class
 - iii. Assignments/ seminar/ surprise test
- The performance of the students is monitored at different levels.
- Progress reports of internal and terminal examinations are displayed to students.
- Department wise meeting is conducted by the Principal in the presence of Controller, Autonomous Cell. It helps to fix responsibility.
- Slow learners and under performers are provided with special classes.
- It has been observed that students have improved their performance gradually from semester one. Overall results are satisfactory.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

The weightage of internal assessment marks are as follows-

- Undergraduate 20%
- Post graduate -20%

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

Yes, the college adheres to the examination schedule given in the college prospectus.

- Examination schedules are announced in the beginning of the year through college website and prospectus.
- Semester and Annual examination time table is announced at least one month prior to examination.
- Consultation process is followed to take the feedback from the HODs, faculty members and students regarding completion of syllabi.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

The average time taken by the College for declaration of Examination results is 2 weeks. The results are released in the college website, Daily Newspapers and through SMS.

2.5.7 Does the college have an integrated examination platform for the following processes?

Yes the college has a comprehensive examination process.

- **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**
 - The college prospectus, regular announcements, notice boards, college website and software developed for entire examination system takes care of the pre examination process.
 - The time bound job procedure has been followed regarding date of examinations, Examination forms, preparation of roll Number list, issuing of admission cards, appointment of examiners, finalizing of question papers, question paper printing etc.
 - Answer book printing, stationary and other logistic support for the examination are done well in advance.
 - Examination superintendents and Squad for preventing unfair means are nominated before the beginning of examinations.
- **Examination process Examination material management, logistics.**
 - Systems are in place for monitoring the examination process.
 - The office of Controller Examination is responsible for this.
 - An exclusive office with sufficient manpower, materials and technology has been created.

- Examination superintendent are in charge of material management and other logistics during examination.
- Examination room management and invigilation are supervised by superintendents.
- Examination squad closely monitors the examination irregularities if any.
- **Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.**
- The office of the Controller, Autonomous examination is responsible for processing the answer books, managing attendance, preserving answer books systematically.
- Simultaneously entries are made from foil/counterfoil of marks obtained by the students in to the examination software as and when valuation is over.
- Results sheets generated are critically verified by the professor in charge of Autonomous exam cell.
- Records are maintained systematically at every stage with initials of responsible professor in charge.
- Mark sheets are generated with the preparation of result sheets.
- Students are provided the opportunity for applying the photocopy of answer sheets, revaluation, retotaling within 15 days from declaration of results. The information is brought to their notice.
- Efforts are made to announce revaluation results within one month from the last date prescribed for applying.
- Provisional marksheets and certificates are issued immediately after the announcement of the results for those students who are need of them.
- Original marksheets are issued within reasonable time period.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

- Ph. D evaluation is regulated by the affiliating university.
- The college is only recognized as a research center and so the college is not authorized to conduct the final evaluation. Departmental Research Committee (DRC) is authorized to evaluate scholar's Pre Ph. D Thesis submission presentation.
- However the research center of the college closely monitors the progress of the research students.
- Plagiarism in Ph. D thesis (if any) is thoroughly checked by Departmental Research Committee (DRC).

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

- The controller of examination with adequate staff has been appointed. He /she is authorized to take all decisions related to examination in consultation with Principal of the college.
- Autonomous examination cell has been furnished with separate rooms- Controller's room, office, confidential work with security and store room .
- The Autonomous cell has been provided all ICT facilities like Electronic gadgets, Communicative facilities, Computer, Printer, Reprographic facility, Scanner, Fax etc.
- Examination software has been built up for smooth functioning of examination process.
- Adequate financial budget allocation has been made to Autonomous Cell with better coordination between Account section and Autonomous Cell.
- Examination section is fully computerized.
- The exam fees, their payment schedule, model exam and end semester exam dates are planned a year ahead and put in the college calendar.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

The college has a well defined process for addressing the grievances with reference to evaluation-

- Adequate safeguard measures are taken to ensure that the evaluation is objective and systematic.
- Students are provided with the photocopy of the answer book on request.
- Students are also given an opportunity of revaluation and retotaling at undergraduate level. The revaluation is done by the independent external examiner.
- After the release of the results, the students could apply for revaluation within 15 days of publication of result.
- The institution has a Grievance Cell to which students can appeal if necessary.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?

The college has clearly stated learning outcomes for all the programmes. The details are as follows:

- The aims and objective of the college are made aware to all stakeholders through college prospectus, website and through programs and activities conducted by college.
- The Students are made aware of these learning outcomes in the first interaction/induction programmes where the Principal addresses all the students.
- The College enables students to develop clarity on concepts like critical and free thinking, creativity and scientific temper.
- It is our conviction that, once a taste for ideas is inculcated in students, they will remain lifelong learners.
- Most importantly, students are protected against excessive obsession with examinations and results. They are encouraged, instead, to stay focused on growing through learning.
- Departmental level meetings are organized.
- Staff council meetings are conducted time to time.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

Learning outcome is monitored through-

- Analysis of students performance in internal tests/terminal examinations/semester/ annual examinations.
- As soon as results are declared, each department analyses the results of their students. This analysis helps to decide in which subject/paper the students are lagging behind and need attention. Taking this analysis into consideration, the plans are prepared to overcome these shortcomings.
- In the beginning of the academic year, a timetable and an academic calendar are prepared. It is ensured that lectures are engaged by the staff as per the timetable, and they are recorded in academic diaries. The timetable committee, Principal and IQAC monitor the execution of academic, co-curricular and extra-

curricular activities and ensure the achievements of learning outcomes.

- Students/ parents/ Alumni feedback.
- Written feedback from external/internal examiners.
- Academic calendar, Teaching plan, and Academic audit.
- Technologies like smart boards, soft wares, Power Point presentation through LCD projectors are used to enhance learning.

2.6.3 How does the institution collect and analyse data on student learning outcomes and use it for overcoming barriers of learning?

The student's performance is collected from Autonomous examination cell and internal examination results. These results are analyzed by the departments. Accordingly, where the results are low, the instructions are given to the concerned faculty to bring the slow learners at par with the other students. The slow learners are also guided through the remedial coaching scheme. A feedback is also taken from the students on teaching of the curriculum, infrastructure, etc. through structured feedback forms and suggestion/complaint boxes. A socio-psychological counseling helps students for their diverse needs. Personal counseling is also done by teachers if they find a student having learning difficulties. Any deficiency or inadequacy on the part of college is rectified on the basis of result analysis.

2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

Under Graduate

Year	Arts (B.A.)			Commerce (B.Com.)			Science (B.Sc.)		
	Appeared	Pass	%	Appeared	Pass	%	Appeared	Pass	%
2015	851	455	53.46	885	601	67.90	1762	979	55.56
2014	725	514	70.89	772	581	75.259	1557	964	61.91
2013	678	466	68.73	731	466	63.748	1385	831	60
2012	738	424	57.45	560	347	61.96	1139	710	62.33
2011	802	407	50.74	491	301	61.30	1212	579	47.77

Post Graduate

Year	Arts (M.A.)			Commerce (M.Com.)			Science (M.Sc.)		
	Appeared	Pass	%	Appeared	Pass	%	Appeared	Pass	%
2015	114	107	93.85	81	72	88.88	162	151	93.20
2014	132	132	100	65	60	92.30	163	154	94.47
2013	110	107	97.27	38	35	92.10	161	153	95.03
2012	93	91	97.84	12	11	91.66	141	139	98.58
2011	59	57	96.61	17	17	100	150	143	95.33

- Any additional information regarding Teaching, Learning and Evaluation, which the institution would like to include.*

1. Teaching-Learning Evaluation

- Students and teachers are conversant with technology.
- Interactive projects.
- Comfortable Classrooms.*
- Use of Open Educational Resources/ E library.
- Video CDS of our college professors on important topics of different subjects are provided to students and staff on free of cost.
- A healthy and learning environment, free of discrimination and harassment, embracing an inclusive and liberal academic culture .
- Students are highly sensitized through community engagement to social, ethical and legal issues.

2. Teacher Quality

- Approximately 84% teachers hold a Ph.D degree.
 - No. of teachers currently involved in active research are 34.
 - Total no. of papers published in the last 4 years in national journal is 213 and international 391.
 - Papers presented in conferences 398(National) & 53 (International).
- In last four years 14 major and 33 minor research projects have been sanctioned to the faculty members by UGC, DST, DBT, BARC, CGCOST, Chhattisgarh Medicinal Plant Board.

3. Outcome

- Pass percentage in all programmes are high above the university averages.
- Prominent alumni comprising nation builders, social activists, entrepreneurs, scientists are a reflection of the teaching-learning process over the last six decades.

CRITERION III: RESEARCH, CONSULTANCY, EXTENSION AND COLLABORATIONS

3.1 Promotion of Research

3.1.1 Does the college have a research committee to monitor and address the issues of research?

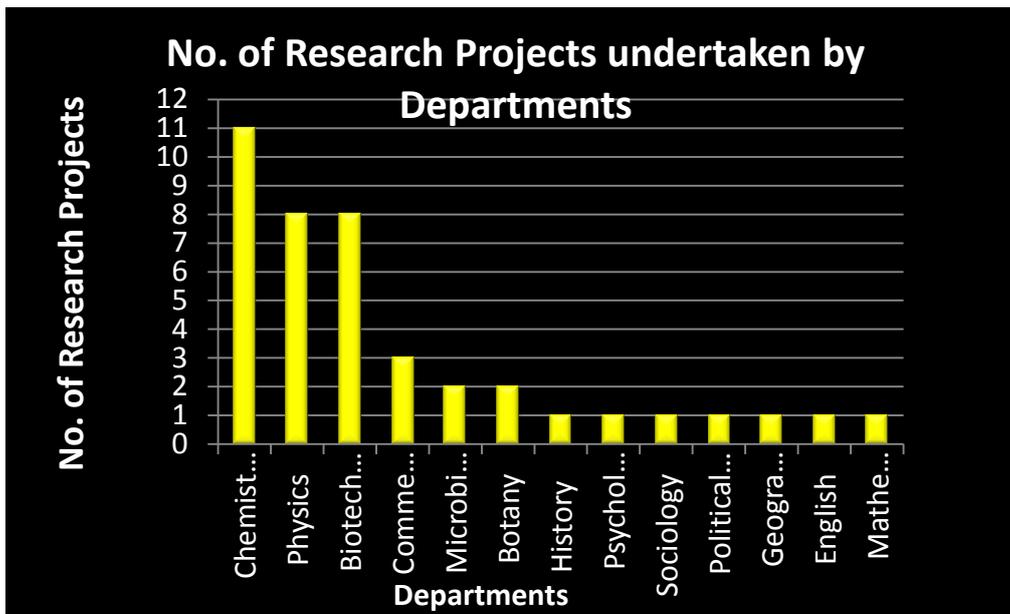
Yes, there is a research committee in college for promotion of research activities and generation of suitable environment for research activities. The composition of committee is as follows -

1. Dr. Surendra Kumar Rajput - Patron
2. Dr. Anil Kumar - Convenor
3. Dr. Ajay Singh - Member
4. Dr. Rakesh Tiwari - Member

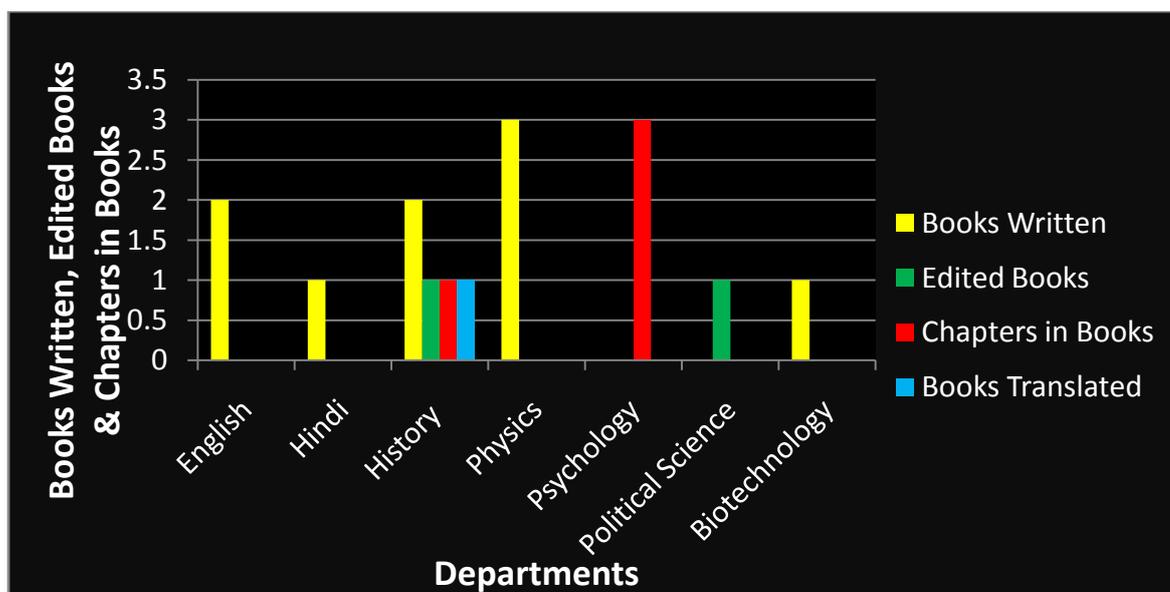
The meeting of research committee is a regular phenomenon in the college to discuss various facts related to promotion of research activities in the college. The impact of effort of committee is as below mentioned

Recommendation	Outcome of Recommendation					
	Department	Status	Funding Agency	Sanctioned	Completed/Ongoing	Principal Investigator
To encourage faculties to undertake Research Projects	Physics	Sanctioned	UGC	1.30 lakh	Completed	Dr. Purna Bose
			UGC	1.35 Lakh	Completed	Dr. J.K. Saluja
			UGC	0.60 Lakh	Completed	Dr. Purna Bose
			CCOST	3.90 Lakh	Ongoing	Dr. J.K. Saluja
			CCOST	4.95 Lakh	Ongoing (Interdisciplinary with Microbiology)	Dr. Anjali Oudhia
			UGC	5.00 Lakh	Ongoing	Dr. J.K. Saluja
			UGC	7.29 Lakh	Completed	Dr. J.K. Saluja
			UGC	3.95 Lakh	Completed	Dr. Anjali Oudhia
	Chemistry	Sanctioned	UGC	4.40 Lakh	Ongoing	Dr. Sunita B. Mathew
			UGC	4.20 Lakh	Ongoing	Dr. Alka Tiwari
			UGC	3.70 Lakh	Ongoing	Dr. Anupma Kashyap
			UGC	2.90 Lakh	Ongoing	Dr. Anupma Asthana
			UGC	2.10 Lakh	Ongoing	Dr. Ajay Pillai

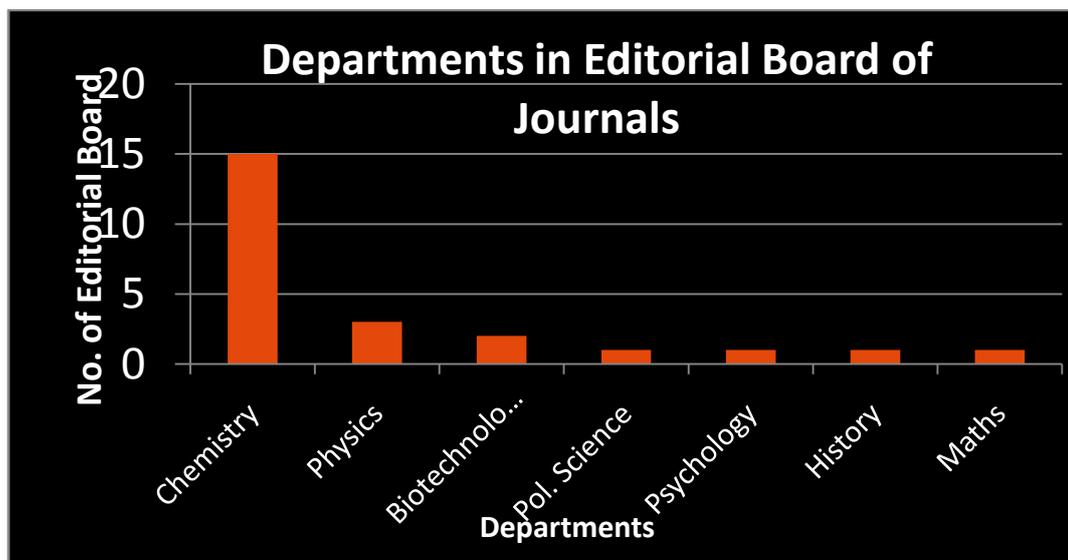
			CCOST	5.00 Lakh	Completed	Dr. A.K. Singh
			UGC	1.90 Lakh	Completed	Dr. Nutan Rathod
			UGC	1.95 Lakh	Completed	Dr. Purna Kathani
			UGC	1.20 Lakh	Completed	Dr. Alka Tiwari
			BARC	19.32 Lakh	Completed	Dr. Alka Tiwari
			UGC	12.00 Lakh	Completed	Dr. A.K. Singh
	Microbiology	Sanctioned	UGC	2.00 Lakh	Completed	Dr. Pragya Kulkarni
			CCOST	4.95 Lakh	Ongoing (Interdisciplinary with Physics)	Dr. Pragya Kulkarni
	Botany	Sanctioned	UGC	1.00 Lakh	Completed	Dr. K.I. Toppo
			UGC	2.10 Lakh	Ongoing	Dr. G.S. Thakur
	Biotechnology	Sanctioned	M.P.B.	1.34 Crore	Ongoing	Dr. Anil Kumar
			DST	17.00 Lakh	Ongoing	Dr. Anil Kumar
			DST	20.00 Lakh	Ongoing	Dr. Anil Kumar
			DST	3.25 Lakh	Completed	Dr. Anil Kumar
			CCOST	5.00 Lakh	Completed	Dr. Anil Kumar
		Applied	DBT	1.29 Crore	-	Dr. Anil Kumar
			Ministry of Env.	49.80 Lakh	-	Dr. Anil Kumar
			ICMR	29.40 Lakh	-	Dr. Anil Kumar
	History	Sanctioned	UGC	1.15 Lakh	Completed	Dr. A.K. Pandey
	Sociology	Sanctioned	UGC	1.75 Lakh	Ongoing	Dr. Suchitra Sharma
	Psychology	Sanctioned	UGC	2.30 lakh	Ongoing	Dr. Rachita Shrivastava
	Political Science	Sanctioned	UGC	1.62 lakh	Ongoing	Dr. Vedmati Mandavi
	Geography	Sanctioned	UGC	9.69 Lakh	Completed	Dr. Ranjana Sharma
	English	Sanctioned	UGC	1.25 Lakh	Ongoing	Dr. Mercy George
	Mathematics	Sanctioned	UGC	1.45 Lakh	Completed	Dr. Rakesh Tiwari
	Commerce	Sanctioned	UGC	3.45 Lakh	Completed	Dr. H.P.S. Saluja
			UGC	1.45 Lakh	Ongoing	Dr. O.P. Gupta
			UGC	2.45 Lakh	Ongoing	Dr. J.R. Thakur



Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	Output
To encourage faculties for Book writing and editing work	2011 - 16	Hindi	Dr. J.P. Sao	Book – 01
		English	Dr. Qamar Talat	Book – 02
		Political Science	Dr. Vedmati Mandavi	Edited Book – 01
		Psychology	Dr. Shahin Gani	Chapter in Book – 01
			Dr. Rachita Shrivastava	Chapter in Book – 02
		History	Dr. Anil Kr. Pandey	Chapter in Book – 01
				Edited Book – 01 Book – 02 Translation of Book – 01
Physics	Dr. Anjali Oudhia	Book – 03		
Biotechnology	Dr. Anil Kumar	Book – 01		



Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	Output
To encourage faculties for editing work of research journal.	2011-16	Chemistry	Dr. Alka Tiwari Dr. Sunita B. Mathew Dr. A.K. Singh	In Editorial Board of 01 Journal. In Editorial Board of 01 Journal. In Editorial Board of 13 Journal.
		Physics	Dr. Anjali Oudhia Dr. J.K. Saluja	In Editorial Board of 02 Journal. In Editorial Board of 01 Journal.
		Political Science	Dr. Vedmati Mandavi	In Editorial Board of 01 Journal.
		Psychology	Dr. Rachita Shrivastava	In Editorial Board of 01 Journal.
		History	Dr. Anil Kr. Pandey	In Editorial Board of 01 Journal.
		Biotechnology	Dr. Anil Kumar	In Editorial Board of 02 Journal.
		Geology	Dr. Prashant Shrivastava	In Editorial Board of 02 Journal
		Mathematics	Dr. Padmavati	In Editorial Board of 01 Journal.



Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	No. of Participation
To encourage faculty for participation in Seminar/Symposia/Conference/Workshop	2011 - 16	Chemistry	Dr. Anupma Asthana	11
			Dr. Alka Tiwari	11
			Dr. Sukumar Chatterjee	05
			Dr. Anil Kashyap	08
			Dr. Manju Kaushal	02
			Dr. Nutan Rathod	07
			Dr. Upma Shrivastava	02
			Dr. Ajay K. Pillai	04
			Dr. Sunitha B. Mathew	09
			Dr. V.S. Geete	02
			Dr. A. K. Singh	23
			Dr. Anupma Kashyap	06
			Dr. Purna Kathane	14
			Dr. Purna Bose	02
			Dr. Jagjit Kaur Saluja	25
Dr. Anita Shukla	06			
Dr. Anjali Oudhia	12			
		Geology	Dr. Prashant Shrivastava	48

			Dr. S.D. Deshmukh	07
		Computer Science	Miss. Kajal Gulhare	08
		Mathematics	Dr. M.A. Siddiqui	09
			Dr. Padmavati	08
			Dr. Prachi Singh	10
			Dr. Rakesh Tiwari	17
			Dr. Vinod Kumar Sahu	10
		Microbiology	Dr. Pragya Kulkarni	18
			Mrs. Rekha Gupta	05
			Mrs. Priti Mehta	05
		Botany	Dr. Ranjana Shrivastava	20
			Shri L.K. Chelikswami	05
			Smt. Gayatri Pandey	05
			Dr. K.I. Toppo	16
			Dr. Shubha Gupta	16
			Dr. G.S. Thakur	15
		Zoology	Dr. Kanti Choubey	12
			Dr. Usha Sahu	12
			Dr. Neeru Agrawal	12
			Dr. Divya Minz	12
		Anthropology	Dr. Sandhya Agrawal	05
		Biotechnology	Dr. Anil Kumar	31
		Sociology	Dr. Rajendra Choubey	05
			Dr. Suchitra Sharma	42
			Dr. Ashwini Mahajan	20
			Dr. Sapna Sharma	44
		English	Dr. Meeta Chakraborty	05
			Dr. Neerja Rani Pathak	05
			Dr. Qamar Talat	11
			Dr. Surekha Jain	05
			Dr. Suchitra Gupta	05
			Dr. Mercy George	06

			Dr. Tarlochan Kaur	08
			Dr. Meena Maan	05
		History	Dr. Anil Pandey	27
			Dr. Jyoti Dhanker	08
			Dr. Kalpana Agrawal	10
		Hindi	Dr. Sheela Agrawal	05
			Dr. Shraddha Chandraker	10
			Dr. Abhinesh Surana	05
			Dr. Baljeet Kaur	05
			Dr. Shanker Nishad	05
			Dr. J.P. Sao	04
			Dr. Krishna Chatterjee	05
		Psychology	Dr. Shahin Gani	05
			Dr. Rachita Shrivastava	05
		Commerce	Dr. O.P. Gupta	05
			Dr. S.N. Jha	05
			Dr. H.P. Saluja	05
			Dr. S.R. Thakur	05
		Economics	Dr. Shikha Agrawal	05
			Dr. A.K. Khan	05
			Dr. Deepshikha Vij	05
			Dr. K. Padmavati	05
			Dr. L.K. Bharti	05
		Geography	Dr. Ranjana Sharma	08
			Dr. S. Yadav	10

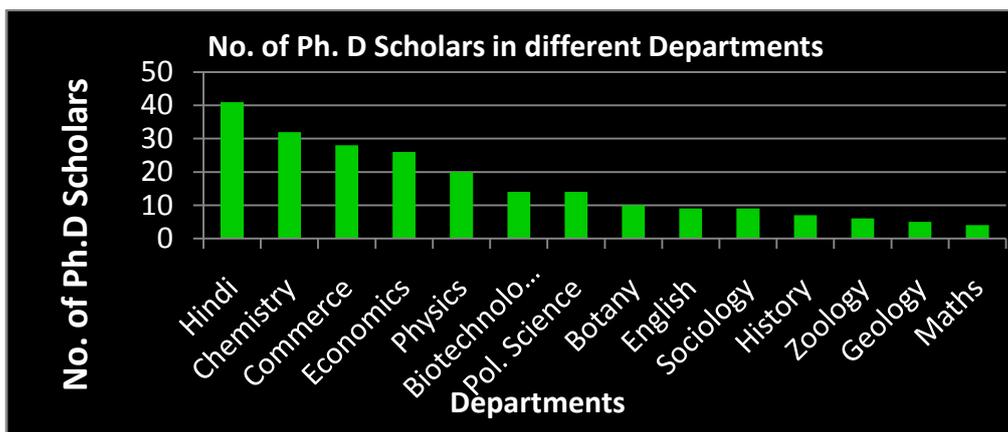
Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	No. of Publications
To encourage faculties for publication of Research Papers	2011 - 16	Chemistry	Dr. Anupma Asthana	15
			Dr. Alka Tiwari	19
			Dr. Anil Kashyap	05
			Dr. Nutan Rathod	05
			Dr. Ajay K. Pillai	04
			Dr. Sunitha Mathew	05
			Dr. A.K. Singh	58
			Dr. Anupma Kashyap	04

			Dr. Prerna Kathane	02
		Physics	Dr. Purna Bose	03
			Dr. Jagjeet Kaur Saluja	71
			Dr. Anjali Oudhia	21
		Geology	Dr. Prashant Shrivastava	09
			Dr. S.D. Deshmukh	09
		Mathematics	Dr. M.A. Siddiqui	03
			Dr. Padmavati	02
			Dr. Prachi Singh	02
			Dr. Rakesh Tiwari	08
			Dr. Vinod Sahu	05
		Microbiology	Dr. Pragya Kulkarni	19
		Botany	Dr. Ranjana Shrivastava	23
			Smt. Gayatri Pandey	01
			Dr. K.I. Toppo	06
			Dr. Shubha Gupta	06
		Zoology	Dr. Kanti Choubey	07
			Dr. Usha Sahu	08
			Dr. Neeru Agrawal	06
			Dr. Divya Minz	09
		Biotechnology	Dr. Anil Kumar	33
		Commerce	Dr. H.P.S. Saluja	19
			Dr. S.R. Thakur	06
			Dr. S.N. Jha	05
			Dr. O.P. Gupta	08
		Hindi	Dr. Shraddha Chandraker	03
			Dr. Abhinesh Surana	03
			Dr. Baljeet Kaur	03
			Dr. Krishna Chatterjee	04
		English	Dr. Qamar Talat	04
			Dr. Surekha Jain	01
			Dr. Mercy George	05
			Dr. Tarlochan Kaur	06
			Dr. Meena Maan	01
		Economics	Dr. Shikha Agrawal	06
			Dr. K. Padmavati	09

		Political Science	Dr. Laxmi Dhruw	07
			Dr. Vedmati Mandavi	24
		Sociology	Dr. Sapna Sharma	25
			Dr. Ashwani Mahajan	03
		Psychology	Dr. Shahin Gani	01
			Dr. Rachita Shrivastava	03
		History	Dr. A.K. Pandey	14
			Dr. Jyoti Dhanker	02
		Geography	Dr. Ranjana Sharma	04
			Dr. S. Yadav	01

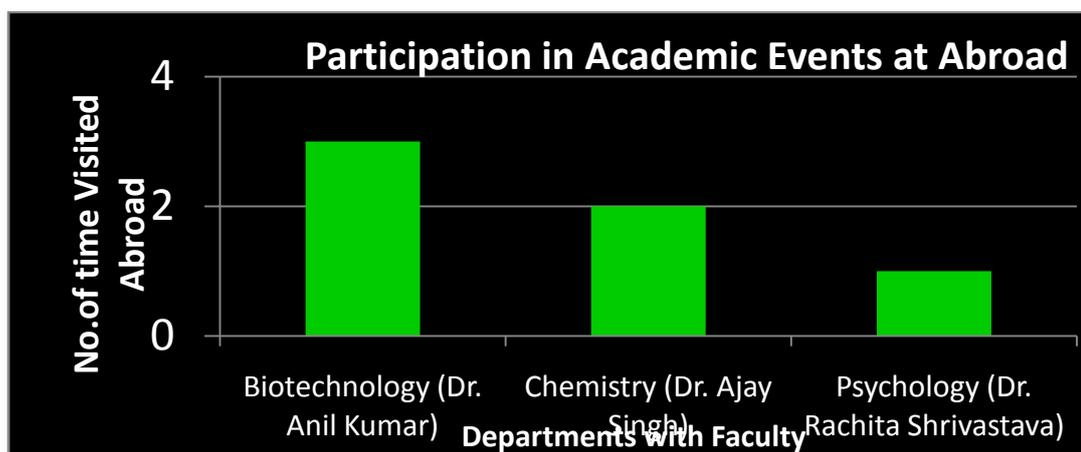
Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	No. of Students registered for Ph.D
To encourage faculties for doctoral programme (Ph.D Programme)	2011 – 16	Chemistry	Dr. Anupma Asthana	05
			Dr. Alka Tiwari	07
			Dr. Ajay K. Pillai	05
			Dr. Sunitha Mathew	01
			Dr. Ajay Kumar Singh	14
		Physics	Dr. Purna Bose	03
			Dr. J.K. Saluja	10
			Dr. Anjali Oudhia	07
		Biotechnology	Dr. Anil Kumar	14
		Zoology	Dr. Kanti Choubey	06
		Geology	Dr. K.R. Hari	03
			Dr. Prashant Shrivastava	02
		Botany	Dr. Ranjana Shrivastava	08
			Dr. Pragya Kulkarni	02
		Mathematics	Dr. M.A. Siddiqui	01
			Dr. Rakesh Tiwari	02
			Dr. K. Padmavati	01

		Hindi	Dr. Shraddha Chandraker	17
			Dr. Abhinesh Surana	07
			Dr. Baljeet Kaur	09
			Dr. Krishna Chatterjee	08
		Economics	Dr. Shikha Agrawal	01
			Dr. A.K. Khan	01
			Dr. K. Padmavati	15
			Dr. Raksha Singh	03
			Dr. Anand Vishwakarma	01
			Dr. D.N. Verma	01
		History	Dr. Anil Pandey	07
		Political Science	Dr. Laxmi Dhruw	06
			Dr. Vedmati Mandavi	06
			Dr. Sunita Mishra	02
		Sociology	Dr. Ashwani Mahajan	02
			Dr. Suchitra Sharma	03
			Dr. Sapna Sharma	04
		English	Dr. Nirja Rani Pathak	03
			Dr. Qamar Talat	04
			Dr. Mercy George	02
		Commerce	Dr. O.P. Gupta	05
			Dr. S.N. Jha	18
			Dr. H.P. Singh Saluja	05



Recommendation	Outcome of Recommendation	
	Department	MOU Partner
To encourage faculties to achieve MOU with Industry and other institutions for development of research activities.	Biotechnology	1. MOU was signed with Ethix Pharma, Bilaspur for symbiotic benefits. We have performed several experimental requirement of ethix pharma and they have provided help to our student in clinical survey
		2. MOU was signed with ATG Lab, Pune. ATG Lab, Pune has provided us technology to perform proteomic electrophoresis from single drop of blood. Previously 5ml blood was required for the same. We have provided them platform for Parvovirus B-19 detection from sickling patients of Chhattisgarh
		3. MOU was reached with Sai Bioinfosys, Nagpur for in silica lab work of our student, in lieu of that we provide wet lab experimental output to them
		4. MOU reached with Pritoria University, South Africa for mutual work in the field of biomolecule characterization and testing for medicinal plants

	Microbiology	1. MOU was signed with Govt. E.R.R. Science College, Bilaspur for exchange of expertise for the students of two institutions
	Physics	1. MOU was signed with IIT Bombay (Sine.k.wat.solution) for collaborative work on solar energy.
Recommendation	Outcome of Recommendation	
	Department	Abroad Visit
To encourage faculties for participation in academic events at abroad	Biotechnology	1. In 2011 – Dr. Anil Kumar participated in 4 th Human Genomic Group meeting and 5 th Pan Arab meeting at Dubai and presented paper related to prevalence of malarial parasite among sickle patient.
		2. In 2011 – Dr. Anil Kumar visited Colombo University, Srilanka and presented paper on Medicinal Plants.
		3. In 2013 – Dr. Anil Kumar visited Chinese Academy of Science, Beijing to participate in 5 th World Congress of Zoological Science and presented paper on Herpetological Diversity of Chhattisgarh.
		4. In September of 2016 participation of Dr. Anil Kumar in 6 th World Congress of Zoological Science at Okinawa University, Japan is scheduled.
	Chemistry	1. In 2011 – Dr. Ajay Singh participated and presented paper at Bangkok
		2. In 2012 - Dr. Ajay Singh participated as Invited Speaker at Dhaka University, Bangladesh.
	Psychology	1. In 2015 - Dr. Rachita Shrivastava visited Nepal.

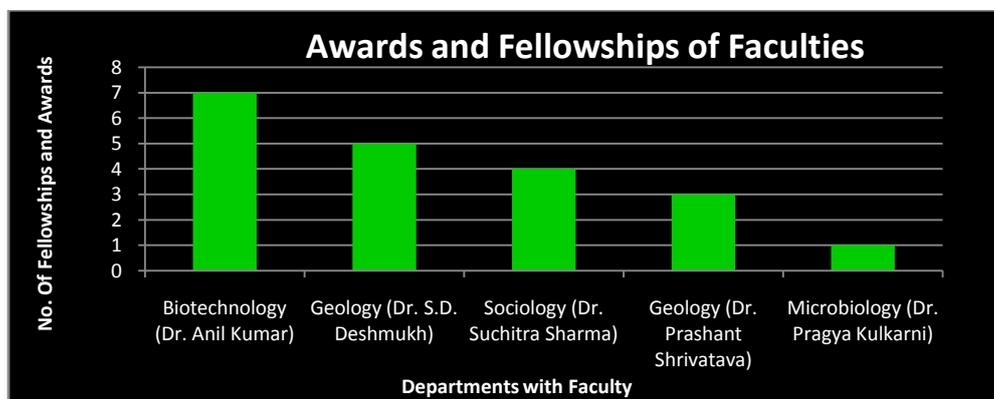


Recommendation	Outcome of recommendation	
	Department	Fellowship/Award received by the students (2011 - 16)
To encourage students for various research based Award and Fellowship.	Chemistry	<ul style="list-style-type: none"> • Post Doctoral Fellowship UGC (2014). • Indira Gandhi Single Girl Child Fellowship (2011). • Young Scientist Award of Chhattisgarh (2013). • Best Paper Presentation Award in National Conference (2014, 2015). • Maulana Azad Fellowship (2011). • SLET (2013). • Tamaskar Gold medal Award (2011). • JRF/SRF (2014). • GATE (2015).
	Physics	<ul style="list-style-type: none"> • Young Scientist Award of Chhattisgarh (2015). • CSIR – NET Qualified (2012, 2013). • Maulana Azad Fellowship. • Best Paper Presentation Award in National Conference (2013, 2014, 2016). • Tamaskar Gold Medal (2011-2015).
	Zoology	<ul style="list-style-type: none"> • CSIR – NET – JRF (2015). • SLET (2014).
	Geology	<ul style="list-style-type: none"> • NET – 02

		<ul style="list-style-type: none"> • UPSC – 01 • CG-PSC – 01 		
	Biotechnology	<ul style="list-style-type: none"> • CSIR-UGC-NET (2011, 2012, 2013, 2014, 2015, 2016). • GATE (2011, 2012, 2013, 2014, 2015). • Indira Gandhi Fellowship (2012). • Rajiv Gandhi National Fellowship (2013, 2014, 2015). • DST Women Scientist A Award (2015). • DST Women Scientist B Award (2015). • Young Scientist Award of Chhattisgarh (2016). • Best Paper Presentation Award in National conference (2011 – 02, 2012 – 01, 2013 – 02, 2014 – 03, 2015 - 03). • Biotech Consortium India Limited Award (2011 – 06, 2012 – 04, 2013 – 04, 2014 – 06, 2015 - 04) 		
	Sociology	<ul style="list-style-type: none"> • UGC – NET (2011, 2012, 2013, 2014, 2015). 		
Recommendation	Outcome of Recommendation			
	Year	Department	Faculty	Award/ Fellowship/ Recognition
To encourage faculties for various academic award & Fellowship	2011 – 16	Microbiology	Dr. Pragya Kulkarni	<ul style="list-style-type: none"> • Fellowship of National Life Science Society.
		Biotechnology	Dr. Anil Kumar	<ul style="list-style-type: none"> • Dr. D.K. Belsare Gold Medal of ZSI – 2012. • Fellowship of Society of Environmental Science. • Fellowship of Society of

				<p>Science and Environment.</p> <ul style="list-style-type: none"> • Fellowship of Society of Life Science. • Fellowship of National Environmentalist Association. • Fellowship of Zoological Society of India. • Institutional membership of International Society of Zoological Science, Beijing.
		Geology	<p>Dr. Prashant shrivastava</p> <p>Dr. S.D. Deshmukh</p>	<ul style="list-style-type: none"> • Jal Star Award of 2012. • Rajiv Gandhi Excellence Award – 2013. • Global Teacher Award – 2015. • Fellow of Mineralogical Society of India. • Fellow of SGAT, Bhubaneswar, Odisha. • Fellow of Gondwana

				<p>Geological Magazine.</p> <ul style="list-style-type: none"> • Fellow of South Asian Association of Economic Geologist. • Fellow and Life Member of GARC (M.P.)
		Sociology	Dr. Suchitra Sharma	<ul style="list-style-type: none"> • Ambedkar – The Pride of Nation Award – 2014. • Women Empowerment Award – 2015. • Dr. Sarvapalli Radhakrishnan Award – 2015. • Award by Lion's Club.



Recommendation	Outcome of recommendation
To start Research Journal from College	Under process, ISSN No. has been listed

3.1.2 What is the Policy of the college to promote research culture in the college?

The salient features of Research policy of the College is as below mentioned –

- I) To create a proper environment in the campus for research activity.
- II) To encourage faculties to take up various research projects.
- III) To investigate problem related to society oriented problems.
- IV) To organize Seminar/ Symposia/ Conferences by various departments.
- V) To participate and present paper in various National and International Conferences within India and abroad.
- VI) To collaborate with various Research organizations and achieve MOU and symbiotic work.
- VII) To encourage faculties for Paper Publication with better peer reviewed indexed journals.
- VIII) To undertake editorial and review of paper work of various journals.
- IX) To encourage non – Ph. D teachers for Ph.D.
- X) To promote faculties for interdisciplinary and interinstitutional work.
- XI) To encourage faculty for book writing.
- XII) To involve postgraduate students in various research activities for investigation of minor research based problems.
- XIII) To streamline Post graduate students for various fellowship viz. NET-JRF, GATE, BCIL, Women Scientist Fellowship of DST, DBT etc, Maulana Azad Fellowship, Rajiv Gandhi National Fellowship, Indira Gandhi Fellowship, Post Doctoral Fellowship etc.
- XIV) To encourage students for participation in various competitive Paper Presentation in National. International Conferences.
- XV) To start a new research journal from College platform with priority of publication of students research outcome.
- XVI) To encourage students for participation in various summer training and vocational programme.

3.1.3 List of details of Prioritized research area and the areas of expertise available with the college.

List summarized as below –

S. No.	Department	Faculty	Prioritized area
1	Chemistry	Dr. Anupma Asthana Dr. Alka Tiwari Dr. Anil Kashyap Dr. A.K. Singh Dr. Ajay Pillai Dr. Sunitha B.Mathew Dr. Anupama Kashyap	Adsorption techniques Environmental Chemistry Adsorption techniques Environmental Chemistry Metal complex analysis Chemical Kinetics Material Science Environmental Chemistry Environmental Chemistry Adsorption techniques Analytical Chemistry
2	Physics	Dr. Purna Bose Dr. Jagjeet Kaur Saluja Dr. Anjali oudhia	Thin Films Material Science, luminescence Nanoparticle Science
3	Microbiology	Dr. Pragya Kulkarni	Cyanobacteria
4	Botany	Dr. Ranjana Shrivastava	Taxonomy
5	Biotechnology	Dr. Anil Kumar	Genotoxicity Haemoglobinepathes Natural Product Analysis
6	Geology	Dr. Prashant Shrivastava	Environmental Study
7	Zoology	Dr. Kanti Choubey	Ichthyology
		Dr. Usha Sahu	Cell Biology
		Dr. D.Minj	Ichthyology
		Dr. N.Agrawal	Medical Microbiology
8	Mathematics	Dr. M.A. Siddiqui	Fixed point theory , approximation theory

		Dr. Padmavati	Fourier Series and transforms, wavelets
		Dr. Prachi Singh	Fuzzy sets
		Dr. Rakesh Tiwari	Fixed point theory
9	Sociology	Dr. Sapna Sharma Dr. Ashwani Mahajan Dr. Suchitra Sharma	Sickle cell Anaemia Child Crime NGO
10	History	Dr. A.K. Pandey	Civil movement in central provinces
11	English	Dr. Qamar Talat Dr. Tarlochan Kaur Dr. Meena Maan Dr. Mercy George	Pedagogical values Afro-American Literature Social movement Human resource
12	Economics	Dr. K. Padmavati	Foreign Trade
13	Commerce	Dr. H.P. Singh Saluja Dr. O.P. Gupta	Co-operative Banking Foreign Trade

3.1.4 What are the Proactive mechanism adopted by the College to facilitate smooth implementation of Research Scheme/ Projects.

- **Advancing fund for Sanctioned Projects –**

College administration is always helpful and encouraging to the researchers. After sanction of amount by funding agency, the Principal Investigator can initiate the required process of procurement of needful for the project work following the purchase rule of the institution. If Principal Investigator need advance money, he/she may withdraw as per allocation with permission of Principal of the College. The account section of the college is responsible to help the principal Investigator in the process of purchasing and auditing of amount.

- **Providing Seed Money –**

Seed money for sanctioned project may be withdraw by Principal Investigator following the allocation limit and prior permission of Principal of the College. The advance withdrawn by the investigator is finally adjusted at the time of finalisation of account.

- **Autonomy to the Principal Investigator/ Co-ordinator for utilizing overhead charge –**

In our college it is precedence to utilize overhead charge of the project for improvement of laboratory concerned to Principal Investigator but with kind permission of head of institution. In lieu of that the water and electricity charge etc. are being meet by the college with the aim to promote the research.

- **Timely release of grants -**

Timely release of grants is not an issue. The grants are being managed through bank. Principal investigator can utilize fund through account section as per allocation after permission of Principal, following purchase rule of the Govt. & Institution.

- **Timely Auditing –**

It is mandatory for all investigator, to submit account and utilization certificate to the account section of the college for auditing by Chartered accountant. It is binding for all to do the needful within three months of stipulated time.

- **Submission of Utilization certificate to the funding authorities –**

After completion of project within three months all related documents viz. Utilization certificate, Audited account, Project report are being submitted to concerned funding agencies under supervision of research committee.

3.1.5 How is Interdisciplinary Research Promoted?

- A substantial interdisciplinary research work are under operation between/Among different departments of the College –

Some departments of the college are doing research work along with faculties of other departments.

S. No.	Departments Involved	Faculty Involved	Outcomes
1.	Microbiology and Physics	Dr. Pragya Kulkarni Dr. Anjali Oudhia	Research Project Ongoing
2.	Biotechnology and Botany	Dr. Anil Kumar Dr. Shubha Gupta Dr. Anil Kumar	Ph.D Thesis and Research Paper Produced. Ph.D Thesis and Research Paper Produced.

		Dr. K.I. Toppo	
3.	Biotechnology and Sociology	Dr. Anil Kumar Dr. Sapna Sharma	Mass awareness programme with scientific evaluation of Sickle Cell Patient.

Collaboration with National/ International Institutes/ Industries

Department involved from our College	Name of Institute to which College have a collaboration	Person involved from collaborative Institute	Person involved from our college	Outcome
Chemistry	University of Sophina, Bulgaria	Dr. Marya Aleksandrova	Dr. Ajay Singh	Collaborative research work & research publication
	University of Dhaka, Bangladesh	Dr. Md. Abubin Hasen Suan	Dr. Ajay Singh Dr. Anupma Asthana	Research publication
	Tribhuvan University, Kathmandu, Nepal	Dr. Rameshwar Adhikari	Dr. Ajay Singh Dr. Anupma Asthana	Research publication
	Govt. College, Utai, C.G.	Dr. R.S. Singh	Dr. Ajay Singh	Research publication
	The University of South Pacific, Suva, Fiji	Dr. Surendra Prasad	Dr. Ajay Singh	Research publication
	Indian Institute of Chemical Technology, Hyderabad	Dr. Surya Prakash Singh	Dr. Ajay Singh	Research publication
	Texas A & M University, Texas	Dr. Virendra Kumar Sharma	Dr. Ajay Singh	Research publication
	Govt. Digvijay College, Rajnandgaon,	Dr. Priti Taunk	Dr. Nutan Rathod	Research publication

	C.G.			
	BIT – Durg, C.G.	Dr. Raunak Tamrakar	Dr. Nutan Rathod Dr. Anupma Asthana	Research publication
	Govt. Model Science College, Jabalpur, M.P.	Dr. Anjali Bajpai	Dr. Alka Tiwari	Research publication
Physics	M.S. University, Baroda	Dr. K.V.R. Murti	Dr. J.K. Saluja	Publication of Paper
	Delhi University, Delhi	Dr. P.B. Shahore	Dr. J.K. Saluja	Publication of Paper
	N.P.L. Delhi	Dr. Harnath	Dr. J.K. Saluja	Publication of Paper
	IIT, Kharagpur	Dr. Amrish Chandra	Dr. J.K. Saluja Dr. Anjali Oudhia	Publication of Paper
	NIT, Raipur	Dr. Sadhana Agrawal	Dr. J.K. Saluja	Publication of Paper
	KWAH Solution, Bombay	Prof. Solanki	Dr. Anjali Oudhia	Publication of Paper
	IIT, Bombay	Dr. Bhushan Pawar	Dr. Anjali Oudhia	Publication of Paper
Microbiology	Govt. E.R.R. Science College, Bilaspur	Dr. D.K. Shrivastava	Dr. Pragya Kulkarni	Project work
Mathematics	South Korea University, South Korea	Dr. Y.J. Cho	Dr. Vinod Sahu	Publication of Paper
	RTM University, Nagpur	Dr. K.C. Deshmukh	Dr. Rakesh Tiwari	Publication of Paper
	D.D.U. University, Gorakhpur	Dr. Sudhir Shrivastava	Dr. Rakesh Tiwari	Publication of Paper

	Rodriguez, Spain	Rosane Lopez	Dr. Rakesh Tiwari	Publication of Paper
	Govt. College, Dhamtari	Dr. D.K. Pathak	Dr. Rakesh Tiwari	Publication of Paper
	Pt. R.S.S. University, Raipur	Dr. H.K. Pathak	Dr. Rakesh Tiwari	Publication of Paper
Biotechnolo gy	Pritoria University, South Africa	Dr. Namrita Lull	Dr. Anil Kumar	Evaluation of antioxidant property of Medicinal Plants
	Institute of family Welfare & Health Munirka, Delhi	Dr. T.G. Shrivastava	Dr. Anil Kumar	Development of Biosensor
	Govt. Digvijay College, Rajnandgaon	Dr. Seema Tripathi	Dr. Anil Kumar	Mentorship of Research Project
	Govt. N.P.G. Science College, Bilaspur	Dr. Renu Maheshwari	Dr. Anil Kumar	Publication of Paper
	Govt. Girls College, Durg	Dr. Nisreen Hussain	Dr. Anil Kumar	Ph. D. Thesis
	St. Thomas College, Bhilai	Dr. Jayshree Balasubramanian	Dr. Anil Kumar	Ph. D. Thesis
	Govt. Science College, Rajnandgaon	Shri S.R. Kannoje	Dr. Anil Kumar	Ph. D. Thesis
	MATS University, Raipur	Dr. G.K. Sahu	Dr. Anil Kumar	Ph. D. Thesis

3.1.6 Enumerate the efforts of the college in attracting researchers of eminence to visit the campus and interact with teachers and students.

College regularly invites eminent scientist and organizes their lecture for inspiration to faculty and students. It is a common practice in our College.

Department	Year	Topic	Name of Researcher
Chemistry	2012	Analytical techniques	Prof. Gulshan Relhan from BARC, Mumbai
	2012	Role of Chemistry in Forensic Science	V.P. Maithil, Forensic Scientist Director, Chhattisgarh State
	2012	Transition Metal Complexes and Group Theory	Dr. R.N. Prasad, Professor, Chem. Dept., Rajasthan University, Jaipur
	2013	Medicinal Plants and Narcotic Drugs	Shri K. Subramanyam (Faculty Chemistry), Chief Conservative Forest and Narcotics and Controller Vyapam
	2013	Bent rule and Walsh Diagram (Group Theory)	Dr. N.P. Singh, Allahabad University
	2015	Big research- better writing	Dr. Rajnikant Sharma (Alumni member), Senior Scientist, CWC Nagpur
	2015	Co-ordination Chemistry	Dr. H.N. Dubey Dist. Co-ordinator Pt. Sundar Lal Sharma Vishwavidyalaya
	2015	Material Science	Prof. Dinesh Varshney , Devi Ahilya Bai University Indore
	2015	Mass Spectroscopy	Dr. Hemlata Mahobey, Ret. Principal and Subject Expert, Chemistry
	2016	Stereochemistry	Dr. P.S. Kalsi, Ludhiana University
Biotechnology	2016	Genetics	Lecture by Dr. Lalji Singh (Former Bhatnagar

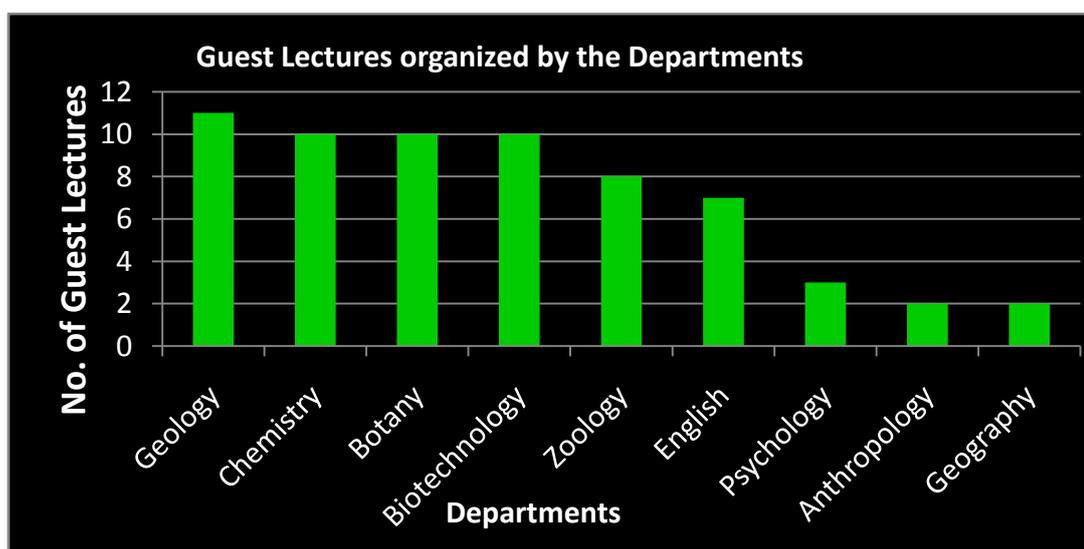
			Fellow, CSIR), Managing Director, Genome Foundation, Hyderabad. Former Director, CCMB, Hyderabad, & Former Vice-Chancellor, Banaras Hindu University, Varanasi
	2016	Chemistry for sustainable development	Lecture by Dr. J.S.Yadav CSIR Bhatnagar Fellow & J C Bose Fellow Pharma Director, CSIR- IICT,Hyderabad,India.
	2014	Guest lecture on “Nanotechnology”.	Dr. Pranveer Singh
	2014	Guest lecture on “Biostatistics”.	Dr. A.K.Pati
	2014	Guest lecture on “Mycology: Bioindicator of Pollution”.	Prof. S.K. Jadhav
	2015	Guest lecture on “Prospects of Bioscience”.	Dr. Prakash S Bisen
	2015	Guest lecture on “Intellectual Property Rights”	Dr. S.S. Sandhu
	2015	Guest lecture on “Bioinformatics”.	Mr. Dilip G. Gore
	2014	Guest lecture on “Proteins”.	Dr. Rizwan Hasan
	2014	Guest lecture on “Molecular Biology”.	Dr. Abhijeet banerjee
English	2011	Toru Dutt- A Poet.	Dr. A. N. Dwivedi
	2011	Phonetics and the Mechanics of English Language	Dr. Chhittaranjan Kar

	2015	Phonetics and English Phonology	Dr. Chhittaranjan Kar
	2015	T.S. Eliot's <i>The Waste Land</i> and Bharat's <i>Natyashastra</i>	Dr. Uma Ram
	2015	Colonial Studies	Dr. J. P. Sao
	2016	Edward Said's Orientalism and Henrik Ibsen's <i>A Dolls House</i>	Dr. Uma Ram
	2016	Psycho Analytic Insight into the Study of Literature	Dr. Rachita Shrivastav
Geology	2012	G.I.S. softwares ERDAS and ILVIS	Dr. Benidhar Deshmukh, Associate Professor, IGNOU, New Delhi
	2013	"Climate change".	Prof. Jon Harbor, Purdue University, USA
	2013	Gems and Gemology	Dr. Sandeep Vansutre, Assistant Professor, Govt. Science College, Raipur
	2013	Personality Development	Prof. R.K. Choubey, HOD Sociology Department
	2014	Groundwater Exploration and Resitivity Survey	Dr. K. Panigrahi Hydrogeologist
	2014	Application of remote sensing and G.I.S. in Geology	Professor Shailesh Chaure, Holkar Science College, Indore
	2014	Petroleum Exploration and Oil Traps	Mr. Anshuman Tiwari and Mrs. Shweta Tiwari, Petroleum Geologists, British Petroleum
	2014	Communication Skills	Prof. Amrita Kasture, Department of English, Govt. PG College, Bhilai-3

	2015	Topic – 02 “Scope and importance of Geology”	Professor Greg Shellnutt, Taiwan University
	2015	Fundamentals of Geology	Shri Niteesh Dutta, Retired Director General , Geological Survey of India
	2015	Geology apps for smartphone users	Prof. Ramesh Joshi Department of Geology, Govt. P.G. College, Jagdalpur
Psychology	2015	Positive Psychology	Dr. Debjaani Mukherjee
	2014	Understanding Abnormal psychology	Dr. Usha Mahobe
	2014	Psychology: Its relevance, opportunities and applied aspects	Dr. Debjaani Mukherjee
Botany	2016	Biodiversity	Dr. Veena Pani Dubey (Prof. & Head dept of Botany C.M.D. College Bilaspur)
	2016	DNA Technology, Cloning, DNA microarray, DNA fingerprinting	Dr. D.K. Shrivastava (Science College Bilaspur)
	2015	Cytogenetics	Dr. N. B. Singh (Science College Raipur)
	2015	Techniques in tissue culture	Dr. Rupinder Diwan (Science College Raipur)
	2014	Photobiology	Prof. P.C. Panda (Retired Prof. Durg)
	2014	About Medicinal Plants	Prof. Utkarsh Ghate (Scientist, UNDP, Green medicine/village herbs)
	2014	Melatonin	Dr. Suman Kumar Maitra

			(Prof. of Zoology Visva Bharti University)
	2013	Genetics	Dr. V. K. Kanoongo (Science College Raipur)
	2013	Plant Pathology	Dr. N. B. Singh (Science College Raipur)
	2013	Biodiversity and its conservation	Dr. Veena Pani Dubey (C.M.D. College Bilaspur)
Zoology	2011	Fresh water sponges and Hill Stream Fishes	Dr.S.K.Dutta
	2011	Consequences of unhealthy sleep	Dr. R. K.Pradhan
	2011	Role of hormones in metabolism of carbohydrates	Dr.M.M.Roy
	2014	Origin of Life	Dr.Ashish Jha
	2013	Fish Farming	Dr.H,N.Sharma
	2015	A lecture on legal issues and human rights	Radhika Saini
	2015	Endocrinology	Dr.Ajit Hundait
	2016	Reproductive Biology	Dr.Seema Gupta
Anthropology	2016	Career Counselling	Dr. Jitendra Kumar (Pt. R.S.U, Raipur)
	2016	Thoughts in Anthropology	Dr. Shailendra Kumar (Pt. R.S.U, Raipur)
Geography	2014	Lecture On History Of Cartography,	Prof. H.S. Gupta Ex. Chairperson, Sos In Geography, Pt. R.S.U. Raipur

	2015	Lecture On Remote Sensing	Prof. S.K. Pandey, Head, Sos In Geology , Pt. R.S.U. Raipur.
		Lecture On Remote Sensing	Prof. S. Chaure, Deptt of Geology, Holkar Science College, Indore



3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the college.

Almost every faculty of the college (100%) have been granted leave for participation in National and International Seminar/Symposia/Conferences. Some faculty members have enjoyed leave for their Ph. D work.

Following faculties have availed academic leave for completion of their Ph.D. work.

S. No.	Name of Teacher	Department	Year
1.	Dr. Shubha Gupta	Botany	2011 – 2013
2.	Dr. Prachi Singh	Mathematics	2011 – 2012
3.	Dr. Vinod Sahu	Mathematics	2015 – 2016
4.	Dr. Purna Kathane	Chemistry	2014 – 2016
5.	Dr. Divya Minz	Zoology	2011 – 2013

Following faculties have availed academic leave for participation in conferences at Abroad.

S. No.	Name of Teacher	Department	Country Visited	Year
1.	Dr. Anil Kumar	Biotechnology	Dubai	2011
2.	Dr. Anil Kumar	Biotechnology	Sri Lanka	2011
3.	Dr. Anil Kumar	Biotechnology	China	2011
4.	Dr. Ajay Singh	Chemistry	Bangladesh	2011
5.	Dr. Ajay Singh	Chemistry	Hong Kong	2011
6.	Dr. Rachita Shrivastava	Psychology	Nepal	2015

3.1.8 Provide details of National and International Conferences/ Workshops organized by the college highlighting the name of Eminent Scientists/ Scholars who participated in these events.

Following Seminar/Symposia/Conferences have been organized by the college –

Department	Year	Title Of Conference/ Workshop	National/ International	Funding agency	Resource Person
Commerce & Management	2011	Management of Resource Utilization and sustainable development.	National	UGC	Dr. S.S. Mishra Dr. N.K. Baghmare Dr. J.L. Bharadwaj
Economics	2016	Environmental cost of economic development.	National	UGC	
History	2015	Peasants, Tribal and working class movement.	National	ICHR	Dr. P.K. Shukla Dr. Suresh Mishra
	2012	Bishvi Shataabdi ka Chhattisgarh.	National	College	Dr. Abha Pal Dr. A.K. Khan
Geology	2011	National Seminar on emerging trends in scientific research.	National	UGC	Dr. Yamuna Singh Dr. M.W.Y. Khan Dr. S.F.R. Khatri
Chemistry	2016	Green Chemistry.	National	UGC	Dr.A.P. Mishra Dr.R.K.Sharma
	2016	Recent Trends in Science and	International		Dr. Rameshwar Adhikari

		Engineering.			Dr. N.B. Singh Dr. Anil Bajpai Prof. Jonal Gadda Dr. Abubin Susan
Biotechnology and Zoology jointly Organized	2011	Bioresource: Its implication, alteration and management for welfare of living kingdom.	National	UGC	Dr. B.N. Pandey Dr. Sanjay Deshmukh
	2015	Prospects of Life Science for Human Welfare with special reference to Chhattisgarh.	National	UGC	Dr. C.B. Singh Dr. Ujjwala Deshmukh
Physics	2011	National Seminar on Recent Trends of Scientific Research.	National	UGC	Dr. K.V.R. Murthy Dr. B.P. Chandra Dr. R.N. Baghel Dr. S.J. Dhoble
	2015	National Seminar on Energy Harvesting.	National	DST CCOST	Dr. Rajendra Kr. Pandey Dr. Shailendra Shukla Prof. Amresh Chandra
	2016	International Conference on Recent Trends in Science and Engineering	International	IRD	Dr. Sanjeev Shrivastava Dr. N.B. Singh
	2015	National Conference on Luminescence and its application.	National	UGC	Dr. Raja Ram Yadav
	2016	International Conference on Space and Plasma	International	UGC	Dr. S.J. Dhoble Dr. Shrikanth B. Jonalagdda Dr. A.K. Bajpai Dr. Md. Bin Husan Dr. Rameshwar Adhikari Dr. Ajit Kumar Mourya
Botany	2011	National Seminar on recent trends in plant and microbial science	National	College	Dr. D.K. Shrivastava Dr. S.B. Nandeshwar
Microbiology	2011	National Seminar on recent trends on	National	College	Dr. S.B.K. Prasad Dr. R.P. Sinha

		Microbial science			
Political Science	2014	Chhattisgarh mein Naxalite Samasya	National	UGC	Smt. Lata Usendi Prof Jay Laxmi Thakur Smt. Harsita Pandey

3.1.9 Details on the college initiative in transferring/advocating the relative findings of research of the college and elsewhere to the students and the community (Lab to Land).

We are trying to transfer the findings of research directly to the students and communities (Lab to Land). Some major transformation of labwork to landwork are as follows –

- In the department of Biotechnology micropropagation of two plants were successfully developed, viz. *Wedelia trilobata* and *Achyranthes aspera*. Both plants have been successfully grown on land in large scale and are visible in our college campus also.
- A protocol for micropropagation of *Gyanoderma* was successfully opted by one of alumini and transformed on to industrial application. Some other alumini have also developed entrepreneurship as a successful business for Oyster and Button Mushroom.
- Several active biomolecules of pharmaceutical significance have been characterized and isolated from native medicinal plants of Chhattisgarh.
- Arsenic contamination from drinking water resource and their impact on human population was investigated at Ambagarh Chowki area of Rajnandgaon district and communicated to Govt. Government has taken initiative to protect sufferers.
- A large scale human population was screened and Sickle Cell Anaemia was detected in population of Chhattisgarh. The affected population have provided counselling to inhibit further mendelian flow. Programme is still ongoing.
- Scientific validation of knowledge of traditional healers was carried out viz. Antioxidant, Antifungal, Antibacterial property of medicinal plants, Antivenom property of medicinal plants against cobra venom.

3.1.10 Give details on the faculty actively involved in research (Guiding Student Research, Leading Research Projects, Engaged in individual or collaborative research activity).

A large number of faculties from Arts, Science and Commerce are actively involved in research work –

- Faculty Guiding Students Research –

S. No.	Department	Name of Faculty Guiding Ph.D.
1.	Chemistry	Dr. Anupma Asthana Dr. Alka Tiwari Dr. Anil Kashyap Dr. Sukumar Chatterjee Dr. A.K. Singh Dr. Ajay Pillai Dr. Sunitha Mathew
2.	Physics	Dr. Purna Bose Dr. Jagjeet Kaur Saluja Dr. Anjali Oudhia
3.	Botany	Dr. Ranjana Shrivastava Dr. Pragya Kulkarni
4.	Zoology	Dr. Kanti Choubey Dr. Anil Kumar
5.	Mathematics	Dr. M.A. Siddiqui Dr. Padmavati Dr. Rakesh Tiwari
6.	Biotechnology	Dr. Anil Kumar
7.	Geology	Dr. Prashant Shrivastava
8.	Commerce	Dr. O.P. Gupta Dr. S.N. Jha Dr. H.P. Saluja Dr. S.R. Thakur
9.	Sociology	Dr. Ashwani Mahajan Dr. Suchitra Sharma Dr. Sapna Sharma
10.	Political Science	Dr. Vedvati Mandavi Dr. Laxmi Dhruv
11.	Economics	Dr. Shikha Agrawal Dr. K. Padmavati Dr. A.K. Khan
12.	Hindi	Dr. Shraddha Chandraker Dr. Baljeet Kaur Dr. Abhinesh Surana Dr. Krishna Chatterjee
13.	English	Dr. Neerja Rani Pathak Dr. Qamar Talat Dr. Mercy George
14.	History	Dr. A.K.Pandey

- Faculty leading Research Projects –

S. No.	Department	Name of Faculty	Individual/ Collaborative
1.	Chemistry	Dr. Anupma Asthana Dr. Alka Tiwari Dr. Anil Kashyap Dr. Nutan Rathod Dr. Anupma Kashyap Dr. Ajay K. Pillai Dr. Sunita B. Mathew Dr. A.K. Singh Dr. Purna Kathane	Individual Collaborative Individual Individual Individual Individual Collaborative Individual
2.	Physics	Dr. J.K. Saluja Dr. Anjali Oudhia	Collaborative Collaborative
3.	Microbiology	Dr. Pragya Kulkarni	Collaborative
4.	Botany	Dr. K. I. Toppo Dr. G.S. Thakur	Individual Individual
5.	Biotechnology	Dr. Anil Kumar	Individual
6.	History	Dr. A.K. Pandey	Individual
7.	Sociology	Dr. Suchitra Sharma	Individual
8.	Psychology	Dr. Rachita Shrivastava	Individual
9.	Political science	Dr. Vedmati Mandavi	Individual
10.	Geography	Dr. Ranjana Sharma	Individual
11.	English	Dr. Mercy George	Individual
12.	Mathematics	Dr. Rakesh Tiwari	Individual
13.	Commerce	Dr. H.P. Saluja Dr. O.P. Gupta Dr. S.R. Thakur	Individual Individual Individual

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure financial allocation and actual utilization for last four years.

In last four years the financial allocation and expenditure in the head of research are as follows –

S. No.	Scheme of Allocation	Financial Allocation	Expenditure	Heads
1.	CPE Phase - II	75.00 Lakhs	75.00 Lakhs	Equipment, Laboratory Upgradation, Glasswares, Chemicals.
2.	CPE Phase - III	80.00 Lakhs	80.00 Lakhs	Lab Equipment, Laboratory Upgradation, Consumable etc.
3.	UGC Additional Grants	50.00 Lakhs	50.00 Lakhs	For infrastructure development of Lab and Equipments

Beside above funds, different research projects have been received by various faculty, detail of which has been already mentioned at stipulated place.

3.2.2 What are the financial provisions made in the college budget for supporting student research projects?

Yes, we have a provision to support students research projects by consumable items and for that each department are supplemented with grants of Rs. 3000.00 (Three Thousand) per year under normal circumstances. Beside in special case more budget may be allocated if justified by research committee subject to approval of the Principal.

In different scheme of UGC and Govt. viz. BSR, CPE, DBT there is provision to support student research project.

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years.

Yes, we have a provision to provide seed money to faculty for research work. The mechanism has been introduced since 2014 -15. Under this process interested faculty have to submit their proposal before Research Committee. On the basis of their merit and need generally committee recommend one research proposal from Science and one from Arts/Commerce stream with maximum capping of Rs. 50,000.00 only.

3.2.4 Are there any special efforts made by the college to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

Presently we do not have any patents but our college is encouraging faculties for the same. In this connection a guest lecture by Dr. S.S. Sandhu, R.D. University, Jabalpur was organized on IPR and patent law to familiarize Faculties and Research Scholars of the College.

3.2.5 Provide the following details of Ongoing Research Projects.

Information about ongoing research projects are summarized as follows –

Head	Year wise	Number	Name of Projects	Name of funding agency	Total grants received
A. Other Agencies – National and International (Specify)					
Minor Projects	2014	MS – 58/202008/ XII/13-14/CRO 12.06.14	Oxidative degradation of some harmful Pesticides Kinetic study.	UGC	4.40 Lakh
	2014	MS – 42/202008/ XII/13-14/CRO 01.07.14	Pesticides removal from aqueous solution by adsorption into paramagnetic styrene based co – polymers.	UGC	4.20 Lakh
	2015	MS – 54/202008/ XII/13-14/CRO 11.09.14	Studies on analytical chemistry of chemical pollutants.	UGC	3.70 Lakh
	2014	MS – 55/202008/ XII/13-14/CRO 12.06.14	Kinetic and Thermodynamic studies of adsorption of some toxic metal ions by using nanoparticle intrupt	UGC	3.1 Lakh
	2014	MS – 60/202008/ XII/13-14/CRO 17.06.14	adsorption. Feasibility study on the development of sensor for monitoring antibiotics in environment.	UGC	2.10 Lakh
	2014	WS – 12/202008/ XII/13-14/CRO 12.06.14	Allelopathic effect of	UGC	2.10 Lakh

2014	1218/ MRP/14 29.09.14	CCOST/	Parthenium hysterophorus on seed germination and growth behaviour of some agrocrops of Chhattisgarh.	CCOST	4.95 Lakh
2014	MS - 97/202008/ XII/13-14/CRO		Biotemplate based synthesis of Zn nanoparticle for application in water remediation.	UGC	5.00 Lakh
2014	15041/ CCOST/MRP/ 2013		Luminescence studies on M_2 $Mg Si_2O_7$ (M- Sr, Ca, Ba) phosphordoped with Eu^{2+} RE^{3+} (RE-DY, Tb, Tm).	CCOST	3.90 Lakh
2014	MH-19/202008/ XII/13-14		Synthesis and Characterization of rare earth activated Yttrium Aluminate Phosphors ($YAlO_3$, $Y_2Al_3O_7$ and $Y_3Al_5O_{12}$).	UGC	2.30 Lakh
2014	MH-107/202008/ XII/13-14/CRO/ 28.05.14		A study of awareness and attitudes towards HIV/AIDS programs on Television at tribes and non tribal school students.	UGC	1.25 Lakh
			Excellence model for teachers in the changing		

	2014	MH-94/202008/ XII/13-14/CRO/	scenario with particular reference to teachers of English.	UGC	1.07 Lakh
	2014	MH-80/202008/XIII/ 13-14/CRO 28.05.14	Bal apradhio me shiksha evam swasthya ki sthiti evam samasya.	UGC	1.45 Lakh
	2013	MH-54/202008/XII/ 12-13/ CRO 31.03.13	Chhattisgarh rajya k krishako ki arthik sthiti me nakad avam vyawsaik faslo ki bhumika- Ek adhyayan (Durg sambhag ke vishesh sandarbh me). Management of capital and liquidity in steel industry with special reference to soil.	UGC	1.25 Lakh

3.2.6 How many departments of the College have been recognized for their research activities by National/International agencies (UGC-SAP, CAS, DST-FIST, DBT, ICSSR, ICHR, ICPR) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

- Total 14 departments have been recognized by Pt. R.S.S. University, Raipur as research centre viz.
 1. Chemistry
 2. Physics
 3. Biotechnology
 4. Botany
 5. Zoology
 6. Geology
 7. Mathematics
 8. Commerce
 9. Sociology

10. Political science
11. Economics
12. History
13. English
14. Hindi

- Two departments have been recognized by DST
 1. Chemistry – Under DST – FIST Programme
 2. Biotechnology – Under Women Scientist Scheme

- Six departments have been recognized by DBT under STAR College Programme
 1. Biotechnology
 2. Microbiology
 3. Physics
 4. Chemistry
 5. Botany
 6. Zoology

- One department is under recognition of ICMR -Biotechnology
- All Science departments of College have been recognized by Chhattisgarh Council of Science and Technology.
- All departments of College are under recognition of UGC
- One department has been recognized by Medicinal Plant Board (AUSH), viz. Biotechnology.
- Regarding quantum of amount received detailed information have been mentioned in 3.2.5
- Two major outcome due to such recognition
 1. DST – Women Scientist programmes have yielded good data related to human health. In one programme the frequency of prevailing Sickle Cell Anaemia in society with their oxidative stress, Genotoxicity and Biochemical Alteration have been established supported by publication. In another programme the frequency of Chemokines receptor for HIV – I among population of Chhattisgarh have been identified and work is likely to be completed.
 2. Frequency of *Plasmodium falciparum* (Malarial parasite) among Sickle Cell Anaemia patient has been studied and found higher frequency rate in homozygous condition (HbSS) than heterozygous condition (HbAS) contrary to previous report. The report was presented before Human Genomic Group meeting and Pan Arab meeting at Dubai.

3.2.7 List of details of completed research projects undertaken by the college faculty in the last four years and mention the details of grants received for such projects.

The following research projects have been completed in last four years –

Department	Principal Investigator	Funding agency	Grant received	
			Minor Project	Major Project
Physics	Dr. Purna Bose	UGC	1.30Lakh	-
	Dr. Jagjeet Kaur Saluja	UGC CCOST	1.35Lakh	-
	Dr. Purna Bose	UGC	0.60 Lakh	-
	Dr. Jagjeet Kaur Saluja	UGC	-	7.29 Lakh
	Dr. Anjali Oudia		3.95 Lakh	-
Chemistry	Dr. A.K. Singh	CCOST	4.00Lakh	-
	Dr. Nutan Rathod	UGC	1.90Lakh	-
	Dr. Prerna Kathane	UGC	1.95 Lakh	-
	Dr. Alka Tiwari	UGC	1.20 Lakh	-
	Dr. Alka Tiwari	BARC	-	19.32 Lakh
	Dr. A.K. Singh	UGC	-	12.00 Lakh
Microbiology	Dr. Pragya Kulkarni	UGC	2.00 Lakh	-
Botany	Dr. K. I. Toppo	UGC	1.0 Lakh	-
	Dr. G.S. Thakur	UGC	2.10 Lakh	-
Biotechnology	Dr. Anil Kumar	DST	3.25 Lakh	-
	Dr. Anil Kumar	CCOST	5.00 Lakh	-
History	Dr. A.K. Pandey	UGC	1.15 Lakh	-
Geography	Dr. Ranjana Sharma	UGC	-	9.69 Lakh
Mathematics	Dr. Rakesh Tiwari	UGC	1.45 Lakh	-
Commerce	Dr. H.P.S. Saluja	UGC	3.45 Lakh	-
Zoology	Dr. Shikha Shrivastava	CCOST	2.00 Lakh	-

3.3 Research Facilities

3.3.1 What efforts are made by the college to keep pace with the infrastructure requirements to facilitate research? How and what strategies are evolved to meet the need of researchers?

The Research Policy of college is a prioritized section and the management of the college always paying efforts to improve all basic need of the college and to encourage faculties and Post graduate students for shaping their Research oriented mindset. In this connection several steps have been initiated by the college –

- Well equipped Central Instrumentation Lab with Gas Chromatography, Atomic Absorption Spectrophotometry, FTIR, Uv-Vis Spectrophotometry like advance instrument beside all basic needful instrument. The central instrumentation lab is being maintained by Department of Chemistry but is open for all Departments of College as well as members of other institution.
- The Chemistry Department having well equipped and furnished Research Labs.
- The Physics department is equipped with Fluorospectrophotometer, TLD READER like apparatus and 03 additional research lab.
- The Biotechnology department having HPLC, Real Time PCR, Gel Documentation System, ELISA, Autoanalyzer, Lyophilizer like advance equipment beside Tissue Culture Lab, Toxicology Lab, Microbial Culture Lab and Molecular Biology Lab.
- The Zoology department having one Research Lab equipped with Rotavapour, Microtomy, CO2 digester like apparatus.
- The Botany department having also one Research Lab equipped with Laminar Air Flow, Electrophoresis, Spectrophotometer etc.
- The Microbiology Research Lab is equipped with Fermentor, Deep Freezer, Spectrophotometer, Cooling Centrifuge and Shaker Incubator like apparatus.
- The Geology Research Lab is equipped with Petrological Microscope beside other essential apparatus.
- The English department having advance language lab equipped with all modern facilities.
- The Maths department is equipped with 3-D LCD Projector.

Our pace is to upgrade our lab consistently and in this connection our next effort lies with XRD, GC – MS, Flow Cytometry like equipments.

Our all research labs are supplemented with Wi – Fi and INFLIB net support. Although a large number of on-line journals and good number of offline journals are available in college, but our next plan is to get “Science Direct.com Service”. There is one special section in our central library for Researcher with separate internet supplemented computers. We have also a section in our library for Ph.D thesis produced by our college for easy accessibility to researchers.

3.3.2 Does the college have an information resource centre to cater to the need of Researchers? If yes provide detail on the facility.

In our central library there is one “Research Information Centre” a specialised section only for researchers equipped with –

- A good number of research journals.
- Research magazines.
- Internet and INFLIB net system.
- E-resource facility for e-journals and e-books.
- Ph.D thesis section for referencing.

3.3.3 Does the college provide residential facilities (with computer and internet facility) for Research Scholars and Faculty?

Yes, we have –

- For Faculty, staff quarters of college are available beside being a govt. servant there is provision for allotment of staff quarters by district administration. Many faculties are enjoying the facility.
- For Students Researchers we have one 60 seater boys hostel and 50 seater girls hostel is also under construction and likely to be completed. In hostel 10% seats are available for research students.
- Beside college hostel several Govt. Hostels are also available for all categories of students including research students.

3.3.4 Does the college have a specialised research centre/workstation to address challenges of research programmes? If yes give detail.

Some of the departments have developed specialised research centre which is listed below –

S. No.	Department	Specialised Research Centre	Expert Faculty
1.	Chemistry	Material Science Adsorption Technique	Dr. A.K. Singh Dr. Anupma Asthana
2.	Physics	Luminescence Nanoparticle Science	Dr. Jagjeet Kaur Saluja Dr. Anjali Oudhia
3.	Microbiology	Cyanobacteria	Dr. Pragya Kulkarni
4.	Botany	Taxonomy	Dr. Ranjana Shrivastava Dr. Chelikswamy
5.	Biotechnology	Genotoxicity Haemoglobinopathes Natural Product Isolation	Dr. Anil Kumar
6.	Geology	Environmental study	Dr. Prashant Shrivastava
7.	Sociology	Sickle cell Anaemia Child Crime NGO	Dr. Sapna Sharma Dr. Ashwani Mahajan Dr. Suchitra Sharma
8.	History	Civil movement in central provinces	Dr. A.K. Pandey
9.	English	Pedagogical values Afro-American Literature Social movement Human resource	Dr. Qamar Talat Dr. Tarlochan Kaur Dr. Meena Maan Dr. Mercy George
10.	Economics	Foreign Trade	Dr. K. Padmavati
11.	Commerce	Co-operative Banking Foreign Trade	Dr. H.P. Singh Saluja Dr. O.P. Gupta

All specialised centres of research have produced many research papers both individually as well as in collaboration. Some work of specialised research centres are directly concerned to social welfare viz. Genotoxicity, Haemoglobinopathes and Natural Product Isolation work.

3.3.5 Does the college have research facilities (centre etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities made use by researchers from other laboratories.

We feel that the college research facilities having recognition at all level. Various other organizations are approaching us for scientific work viz.

- We are frequently doing lyophilisation work of G.G. Das University (a Central University), Bilaspur.
- Doing Phytochemical Analysis for Bilaspur University, Bilaspur, Pt. R.S.S. University, Raipur.
- Performing bacterial culture and antibacterial effect for Ethix Pharma, Bilaspur.
- Performing experiment to detect Parvo-virus, B-19 in human population suffering from Sickle Cell Anaemia for ATG Lab, Pune.
- Conducting experiments related to Antioxidant feature analysis of Medicinal Plants for Pritoria University, Bilaspur.
- NIT Raipur and Pt. R.S.S. University Raipur are utilizing advanced petrographic studies and photomicrographic facility of Geology lab.
- RTM University Raipur/ Pt. R.S.S. University Raipur/ M.S. University Baroda are utilizing our thermoluminescence lab of Physics department.
- Yugantar Engineering College, Rajnandgaon seeking help of our Microbiology department for microbial analysis of water.

3.4 Research publications and Awards

3.4.1 Highlight the major research achievements of the college through the following.

- Major Paper presented in regional, national and international conferences A summarized information about major paper presented by faculties in national/ international conferences from 2011 to till date are as follows

S. No.	Department	Name of Faculty	National/ International/ Regional Conferences		
			Attended	Paper presented	Acted as Resource Person
1.	Chemistry	Dr. Anupma Asthana	11	05	03
		Dr. Alka Tiwari	11	01	-

		Dr.Sukumar Chhaterjee	05	03	-
		Dr. Anil Kashyap	08	01	04
		Dr. Manju Kaushal	02	01	-
		Dr. Nutan Rathod	07	01	-
		Dr. Upma Shrivastava	02	01	-
		Dr. Ajay Pillai	04	01	-
		Dr. Sunita B. Mathew	09	01	02
		Dr. V.S. Geete	02	01	-
		Dr. A.K. Singh	23	16	06
		Dr. Anupma Kashyap	07	01	02
		Dr. Perna Kathane	14	06	-
2.	Physics	Dr. Purna Bose	03	02	-
		Dr. Dr. Jagjeet Kaur Saluja	24	16	08
		Dr. Anjali Oudhia	26	13	04
3.	Botany	Dr.Ranjana Shrivastava	15	05	-
		Dr. Chelikswamy	01	-	-
		Dr. G. Pandey	09	-	-
		Dr. K.I. Toppo	07	04	-
		Dr. Shubha Gupta	12	04	-
		Dr. G.S. Thakur	06	01	-
4.	Geology	Dr.Prashant Shrivastava	15	06	05
		Dr. S.D. Deshmukh	05	03	-
5.	Sociology	Dr. Anjali Mahajan	05	05	-
		Dr. Suchitra Sharma	15	15	-
		Dr. Sapna sharma	12	08	-
6.	Psychology	Dr. Rachita Shrivatava	05	05	-
		Dr. Shahin Gani	05	02	-
7.	Microbiology	Dr. Pragya Kulkarni	18	05	01
8.	History	Dr. A.K. Pandey	27	27	-
		Dr. Jyoti Dhankar	08	07	-
		Dr. Kalpana Agrawal	05	05	-
9.	Geography	Dr. Ranjana Sharma	08	04	-
		Dr. Sushma Yadav	09	05	-
10.	Hindi	Dr. Sheela Agrawal	02	01	-
		Dr. Shradha Chandraker	10	04	02
		Dr. Abhinesh Surana	05	-	-
		Dr. Baljeet Kaur	06	03	-

		Dr. J. P. Sao	04	-	03
		Dr. Krishna Chatterjee	07	05	01
11.	English	Dr. Meeta Chakraborty	02	02	-
		Dr. Neerja Rani			
		Dr. Qamar Talat	01	-	01
		Dr. Surekha Jain	09	07	-
		Dr. Suchitra Gupta	01	-	-
		Dr. Mercy George	01	-	01
		Dr. Tarlochan Kaur	05	03	-
		Dr. Meena Maan	06	04	-
			03	02	-
12.	Economics	Dr. Shikha Agrawal	05	03	-
		Dr. A.K. Khan	03	-	-
		Dr. K. Padmavati	05	02	-
13.	Commerce	Dr. O.P. Gupta	05	-	-
		Dr. S.N. Jha	06	-	-
		Dr. H.S. Saluja	08	02	-
		Dr. S. R. Thakur	04	-	-
14.	Political Science	Dr. Arvind Shukla	05	-	-
		Dr. Vedmati Mandavi	15	05	-
		Dr. Laxmi Dhruv	12	03	-
15.	Biotechnology	Dr. Anil Kumar	38	15	08

- Publication per Faculty

The list for number of publication of faculties may be summarised as below mentioned.

Detail list is appended as Annexure – X

S. No.	Year	Department	Faculty	No. of Publications
1.	2011 – 16	Chemistry	Dr. Anupma Asthana	15
			Dr. Alka Tiwari	19
			Dr. Anil Kashyap	05
			Dr. Nutan Rathod	05
			Dr. Ajay K. Pillai	04
			Dr. Sunita Mathew	05
			Dr. A.K. Singh	58
			Dr. Anupma Kashyap	04
			Dr. Prerna Kathane	02

2.		Physics	Dr. Purna Bose	03
			Dr. Jagjeet Kaur Saluja	71
			Dr. Anjali Oudhia	21
3.		History	Dr. A.K. Pandey	14
			Dr. Jyoti Dhanker	02
4.		Mathematics	Dr. M.A. Siddiqui	03
			Dr. Padmavati	02
			Dr. Prachi Singh	02
			Dr. Rakesh Tiwari	08
			Dr. Vinod Kumar Sahu	05
5.		Geography	Dr. Ranjana Sharma	04
			Dr. S. Yadav	01
6.		Microbiology	Dr. Pragya Kulkarni	19
			Mrs. Rekha Gupta	
			Mrs. Priti Mehta	
7.		Botany	Dr. Ranjana Shrivastava	23
			Smt. Gayatri Pandey	01
			Dr. K.I. Toppo	06
			Dr. Shubha Gupta	06
		Geology	Dr. Prashant Shrivastava	06
			Dr. S D Deshmukh	05
8.		Zoology	Dr. Kanti Choubey	05
			Dr. Usha Sahu	07
			Dr. Neeru Agrawal	04
			Dr. Divya Minz	08
9.		Biotechnology	Dr. Anil Kumar	33
10.		Commerce	Dr. H.P. Saluja	19
			Dr. S.R. Thakur	06
			Dr. S.N. Jha	05
			Dr. O.P. Gupta	08
11.		Hindi	Dr. Shraddha Chandraker	03
			Dr. Abhinesh Surana	03
			Dr. Baljeet Kaur	03
			Dr. Krishna Chatterjee	04
12.		English	Dr. Qamar Talat	07
			Dr. Surekha Jain	01

			Dr. Mercy George	05
			Dr. Tarlochan Kaur	08
			Dr. Meena Maan	02
13.		Economics	Dr. Shikha Agrawal	06
			Dr. K. Padmavati	09
14.		Political Science	Dr. Laxmi Dhruw	07
			Dr. Vedmati Mandavi	24
15.		Sociology	Dr. Sapna Sharma	25
			Dr. Ashwani Mahajan	03
16.		Psychology	Dr. Shahin Gani	01
			Dr. Rachita Shrivastava	03

- Faculty serving on the Editorial Boards of National and International Journals

S. No.	Year	Department	Faculty	Output
1.	2011 - 16	Chemistry	Dr. Alka Tiwari Dr. Sunita B. Mathew Dr. A.K. Singh	In Editorial Board of 01 Journal. In Editorial Board of 01 Journal. In Editorial Board of 13 Journal.
2.		Physics	Dr. J.K. Saluja Dr. Anjali Oudhia	In Editorial Board of 01 Journal, Editor in Chief 01 Journal In Editorial Board of 02 Journal.
3.		Political Science	Dr. Vedvati Mandavi	In Editorial Board of 01 Journal.
4.		Psychology	Dr. Rachita Shrivastava	In Editorial Board of 01 Journal.
5.		History	Dr. Anil Kr. Pandey	In Editorial Board of 01 Journal.
6.		Biotechnology	Dr. Anil Kumar	In Editorial Board of 02 Journal.
7.		Geology	Dr. Prashant Shrivastava	In Editorial Board of 02 Journal
8.		Mathematics	Dr. Padmavati Dr. Rakesh Tiwari	In Editorial Board of 02 Journal.

- Faculty members in the organizing committee of International Conference, recognized by reputed Organizations/Societies.

The Department of Physics and Chemistry have organized International Conference in 2016 and the faculty members of both the departments have played role in organizing committee. The conference was organized by IRDA.

DEPARTMENT OF CHEMISTRY

Dr. Anupma Asthana – Convenor
Dr. A.K. Singh – Co-Convenor
Dr. Alka Tiwari – Organizing Secretary
Dr. Nutan Rathod – Registration Committee

DEPARTMENT OF PHYSICS

Dr. J.K. Saluja - Convenor
Dr. Purna Bose – Joint Secretary
Dr. Anita Shukla - Joint Secretary

3.4.2 Does the college publish Research journals? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database.

The college is publishing Research Journal entitled “**Research Expression**”.

The vision and mission of journal are – the Vision of the journal is to cater all the researchers and the Academicians for research, to provide them a platform for better academic performance and to promote the budding scholars.

The Mission of the journal is to give researchers a venue to impact their knowledge to one another and contribute what they can, to the Grand design of improving natural knowledge and perfecting all philosophical Arts, Science and Commerce

The Editorial Board and Advisory Board of the Journal are as follows –**Patron** - Dr. Surendra Kumar Rajput**Editor** - Dr. Qamar Talat

Associate Editors	Dr. O.P. Gupta Dr. A.K. Pandey Dr. Suchitra Sharma	Dr. Ajay singh Dr. Krishna Chatterjee Dr. Mercy George
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The policy for the publication in our research journal has been accepted by editorial and advisory board which is as follows –

- Paper should be submitted strictly as MS Word 2007 attachments:
Paper Size: A4 Size, Font Size: Times New Roman, Kruti Dev 011,
Spacing: Single Line, Margin: 1 inch all four sides.

Title - Bold, Sentence case (Capitalize each word), Centered.

Text of the Paper – Justified.

References - Please follow latest MLA Style strictly.

Title of Books -Italics, Titles of articles from journals and books: “Quoted” .

- The paper should be 6-8 pages or 2500 words in length in single space.
- Graphs, Maps, Pictures, Tables etc. are expected in the proper place of ‘PageMaker setting’.
- Mode of Submission: All submissions may be sent by email to expression201512@ yahoo.com along with a hard copy in the following address: Dr. Qamar Talat, Editor, ‘Research Expression’, Govt. V.Y.T.PG. Autonomous College, Durg, 491001, Chhattisgarh, India.
- The manuscript must be accompanied by
 - (i) A declaration that is an original work and has not been published or sent for publication anywhere else.
 - (ii) Abstract of paper in about 100-200 words and keywords (Maximum: 05).
 - (iii) Contributors name, institutional affiliation, postal address, mobile number and e-mail and a stamp sized photon a separate sheet.
- Contributors are advised to adhere to strict academic ethics with respect to acknowledgement of original ideas borrowed from others. The editor/publisher will not be responsible for any lapse on the part of the contributor.

Final selection will be made after the papers are recommended by the Board. Contributors of selected papers will be informed by email/mobile. The editorial board reserves the right to make required modifications. Papers not selected for publication will not be returned. So all contributors are advised to retain a copy of their submissions. The Editor may be contacted for any information.

3.4.3 Give details of publications by the faculty.

A large number of teachers are engaged in research work from all three faculty Science, arts and Commerce and are regularly publishing research papers in National/International/Peer reviewed/ Impact factor Journals. A detail list has been appended as Annexure – X.

A brief glimps of publication considering department wise, is depicted below for bird's eye view consideration

- Categorization of publications as national and international are expressed in below histogram –
- Monograph – 01
 Title - Oxidative stress induced genotoxicity in Sickle Cell Anaemia.
 Author's Name - Dr. Anil Kumar, Dr. Nikhil Mishra
 Publisher's Name - LAP Lambert Academic Publishing, Omni Scriptum GmbH & Co.KG, Bahnhofstrabe 28, d-66111 Saarbrucken, Germany
- Chapter in Books –

Following faculty members have contributed in knowledge bank as a chapter of books, viz

Dr. Rachita Shrivastava – Psychology – 02 Books

Dr. Anil Kr. Pandey – History – 01 Book

Dr. SD Deshmukh – Geology- 02 Book

Dr. Prashant Shrivastava- Geology- 03 book

- Edited Books –
 Contribution of faculties in editing books are as follows –
 Dr. Vedvati Mandavi – Political Science – 01 Books
 Dr. Anil Kr. Pandey – History – 01 Book
 - Translation of Books –
 Dr. Anil Kr. Pandey of History Department has translated the Book.
 - Books with ISBN number and Details of Publications –
 Some faculty have written complete book for the benefit of academic world, viz. –
- | | | |
|------------------------|---|---------------------|
| 1. Dr. J.P. Sao | - | Hindi |
| Name of Book | - | Kahani ki Upasthiti |
| ISBN No. | - | |
| Publisher Address | - | |
| Year of Publication | - | 2015 |

- 2. Dr. Qamar Talat - English**
 Name of Book - Environmental concerns in Indian writing in English
 ISBN No. - 978-81-8435-445-4
 Publisher Address - Adhyayan Publishers & Distributors, New Delhi.
 Year of Publication- 2015
 Name of Book - Subaltern voices in Indian English Novels
 ISBN No. - 978-93-85528-20-0
 Publisher Address - YKING BOOKS, Publishers & Distributors
 Year of Publication- 2016
- 3. Dr. Anil Kr. Pandey - History**
 Name of Book - Trial and Acquittal of Raja Shitab Rai
 ISBN No. - 978-81-7831-257-6
 Publisher Address - International Publisher, New Delhi
 Year of Publication- 2011
 Name of Book - Glimpses of Modern Indian History
 ISBN No. - 81-7499-067-4
 Publisher Address - Vishwa Bharti Prakashan, Nagpur
 Year of Publication- 2011
- 4. Dr. Anjali Oudhia - Physics**
 Name of Book - Electro-optical Studies of Cd-Se, HO/Nd thin films
 ISBN No. - 978-3-8473-7509-8
 Publisher Address - Lambert Publication, Germany
 Year of Publication- 2012
 Name of Book - Nano vigyaan o technique sabke liye
 ISBN No. - 81-89244-63-9
 Publisher Address - Vaibhav Publisher, Raipur
 Year of Publication- 2012
 Name of Book - Apne Hisse ki Dharti
 ISBN No. - 81-89244-31-0
 Publisher Address - Vaibhav Publisher, Raipur
 Year of Publication- 2012

- Number listed in International Database (Web of Science, Scopus, Humanities International, International Social Science Directory, EBSCO, Lost etc.)

The Research Publication of Faculties of our College have already recognized by various indexing agencies of both Science and Humanities section. The major international database in which our publications have been indexed are as follows –

- Scopus
- Web of Science
- Science Direct
- EBSCO – USA
- Google Scholar
- Chemical Abstract, USA
- Pro Quest.net, UK
- Indian Science Abstracts
- Indian Citation Index
- Medicinal and Aromatic Plant Abstract
- OCLC World Cat
- Lexis Nexis
- Cambridge Science Abstract
- Zoological Record, UK
- NAAS Rating, India
- NISCAIR – India
- Thompson Rentur – USA
- Index Copernicus
- Science Central
- DOAJ

The citation index (considering impact factor, h-index and i10 index, Scopus) of source of faculty members of our college is highly appreciable and remarkable. In this respect for overview of college viability, the Google Scholar citation index have been presented as follows

- Citation Index Range - 0 to 1350
- SNIP – 0.538 to 0.98
- SJR – 0.336 to 0.597
- Impact Factor Range - 0 to 6.5
- h – Index – 0 to 13
- i10 Index – 0 to 20

3.4.4 Indicate the average number of successful M.Phil and Ph.D Scholars guided per faculty.

Year	Department	Faculty	No. of Students registered for Ph.D
2011 – 16	Chemistry	Dr. Anupama Asthana	06
		Dr. Alka Tiwari	07
		Dr. Ajay K. Pillai	05
		Dr. Sunita Mathew	01
		Dr. Ajay Kumar Singh	14
	Physics	Dr. Purna Bose	03
		Dr. J.K. Saluja	10
		Dr. Anjali Oudhia	07
	Biotechnology	Dr. Anil Kumar	14
	Zoology	Dr. Kanti Choubey	06
	Hindi	Dr. Shraddha Chandraker	17
		Dr. Abhinesh Surana	07
		Dr. Baljeet Kaur	09
		Dr. Krishna Chatterjee	08
	Commerce	Dr. O.P. Gupta	05
		Dr. S.N. Jha	18
		Dr. H.P. Singh Saluja	05
	Economics	Dr. Shikha Agrawal	01
		Dr. A.K. Khan	01
		Dr. K. Padmavati	15
		Dr. Raksha Singh	03
		Dr. Anand Vishwakarma	01
		Dr. D.N. Verma	01
	History	Dr. Anil Pandey	07
	Botany	Dr. Ranjana Shrivastava	08
		Dr. Pragya Kulkarni	02
	Mathematics	Dr. M.A. Siddiqui	01
Dr. Rakesh Tiwari		02	
Dr. Padmavati		01	

	Political Science	Dr. Laxmi Dhruw	06
		Dr. Vedmati Mandavi	06
		Dr. Sunita Mishra	02
	Sociology	Dr. Ashwani Mahajan	02
		Dr. Suchitra Sharma	03
		Dr. Sapna Sharma	04
	Geology	Dr. Prashant Shrivastava	02
	English	Dr. Nirja Rani Pathak	03
		Dr. Qamar Talat	04
		Dr. Mercy George	02

3.4.5 What is the stated policy of the college to close malpractices and misconduct in research?

College policy to maintain the ethics and standard of research work. In this regard every researcher have to follow following guidelines –

1. We have Institutional Ethics Committee as per ICMR norms. Any work related to animal and human experiment has to be first examined by independent Institutional Ethics Committee and only after clearance of Committee the work may be carried out. Researchers have to place the progress report before the committee for midterm evaluation.
2. There is provision for six month course work in which every candidate is bound to present their proposed plan of work before the committee.
3. Pre thesis submission presentation is mandatory for all researchers before the DRC committee. The committee decide the originality of work, compliances of objectives passed by RDC and to check malpractice if adopted by candidate.
4. Before submission of thesis it is essential to pass through checking of plagiarism, if found, then candidate have to rectify it otherwise it is not being allowed for examination.
5. We have provision for open viva voce system by power point presentation and free cross questions are allowed from experts and audience.

3.4.6 Does the college promote interdisciplinary research? If yes, how many interdepartmental/ interdisciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

- A substantial interdisciplinary research work are under operation viz.
- Between/Among different departments of the College –Some departments of the college are doing research work along with faculties of other departments.

S. No.	Departments Involved	Faculty Involved	Outcomes
1.	Microbiology and Physics	Dr.Pragya Kulkarni Dr.Anjali Oudhia	Research Project Ongoing
2.	Biotechnology and Botany	Dr. Anil Kumar Dr.Shubha Gupta Dr. Anil Kumar Dr. K.I. Toppo	Ph.D Thesis and Research Paper Produced. Ph.D Thesis and Research Paper Produced.
3.	Biotechnology and Sociology	Dr. Anil Kumar Dr.Sapna Sharma	Mass awareness programme with scientific evaluation of Sickle Cell Patient.

3.4.7 Mention the research awards instituted by the college.

Presently we do not have such policy but it is in our agenda to constitute award for research activity. Presently college has constituted award for social and extension service sector viz. NSS, NCC, Youth red Cross, Sports.

3.4.8 Provide details of

- **Research award received by the faculty**

Outcome of Recommendation			
Year	Department	Faculty	Award/ Fellowship/ Recognition
2011-16	Sociology	Dr. Suchitra Sharma	<ul style="list-style-type: none"> • Ambedkar – The Pride of Nation Award – 2014. • Women Empowerment Award – 2015. • Dr. Sarvapalli Radhakrishnan Award – 2015. • Award by Lion's Club.
	Biotechnology	Dr. Anil Kumar	<ul style="list-style-type: none"> • Dr. D.K. Belsare Gold Medal of ZSI – 2012. • Institutional membership of International Society of Zoological Science, Beijing.
	Geology	Dr. Prashant Shrivastava	<ul style="list-style-type: none"> • Jal Star Award of 2012. • Rajiv Gandhi Excellence Award - 2013 • Global Teacher Award – 2015.

- **Recognition received by the faculty from reputed professional bodies and agencies**

Outcome of Recommendation			
Year	Department	Faculty	Award/ Fellowship/ Recognition
2011 – 16	Chemistry	Dr. Anupama Asthana Dr. A.K. Singh	<ul style="list-style-type: none"> • Fellowship of Indian Chemical Society. • Fellowship of Indian Science Congress Association. • Fellowship of Indian association of Chemistry teacher. • Fellowship of Luminescence Society of

		Dr. S. Mathew	<p>India.</p> <ul style="list-style-type: none"> • Fellowship of Indian Chemical Society. • Fellowship of Indian Science Congress Association. • Fellowship of Indian society for Surface Science and Technology. • Fellowship of Indian Council of Chemist. • Fellowship of Catalysis Society of India. • Fellowship of Purvanchal Academy of Sciences. • Fellowship of Indian Chemical Society. • Fellowship of Indian Science Congress Association.
	Microbiology	Dr. Pragya Kulkarni	<ul style="list-style-type: none"> • Fellowship of National Life Science Society.
	Biotechnology	Dr. Anil Kumar	<ul style="list-style-type: none"> • Fellowship of Society of Environmental Science. • Fellowship of Society of Science and Environment. • Fellowship of Society of Life Science. • Fellowship of National Environmentalist Association. • Fellowship of Zoological Society of India. • Institutional membership of International Society of Zoological Science, Beijing.
	Physics	Dr. J.K. Saluja	<ul style="list-style-type: none"> • Fellowship luminescence society of india • Indian Association of Physics Teachers

	Geology	Dr. S.D. Deshmukh	<ul style="list-style-type: none"> • Fellow of Mineralogical Society of India. • Fellow of SGAT, Bhubaneswar, Odisha. • Fellow of Gondwana Geological Magazine. • Fellow of South Asian Association of Economic Geologist. • Fellow and Life Member of GARC (M.P.)
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3.4.9 List the incentives given to faculty for receiving state, national and international recognitions for research contribution.

Since our college is a government organization (A unit of higher organization Deptt. of Chhattisgarh Government), so we do not have such type of policy in Govt. regulation.

3.5 Research, Consultancy and Extension

Consultancy;

Consultancy services are crucial for the culmination of professional development, which ultimately leads to regional and national development. Faculty members provide their expertise as consultants in various areas and capacities. The benefits are shared by both the college and the beneficiary institutes. Our college has well defined policy for faculty's involvement in consultancy assignments and the Institute encourages faculty members to actively participate in this activity.

3.5.1 What are the stated policy of the college for structured consultancy? List a few important consultancy services undertaken by the College.

The stated policy of the College for structured consultancy is as follows:

‘The institute has an open door policy for the dissemination of knowledge for the mutual benefit of institution, industry and neighbourhood’ Initially, the consultancy was provided free of cost out of academic interest, but with the increasing demands of researchers and students, a well defined structure for availing the consultancy services has been developed in our college. The

guidelines, rules, fee structure etc. is provided by the college to those willing to join any department for their project work.

The institution renders consultancy services to industry, Government and Non Government Organisations and other educational institutions.

A few important consultancy services are:

1. Knowledge Exchange Programme (honorary):

(A) Mentoring of Schools:

Our institution provides mentorship to school teachers as well as students of nearby schools, who are facing problems like poor infrastructure, shortage of teachers, and lack of ICT facilities. Here is a glimpse of such programmes organized during 2011-15:

- Various awareness camps are organized by every department yearly in the schools, about topics related to their areas of expertise, like

S. No.	Year	Department	Topic of the Awareness camps
	2011-12	Chemistry Biotechnology	Activities for school children on International Year of Chemistry Sickle cell Anemia testing camp at Village Kareli, Durg
	2012-13	Career & placement Cell Biotechnology	‘DST sponsored Entrepreneurship awareness camp’ at Govt H.S. Deepak Nagar school, Durg. Sickle cell Anemia testing camp at Khariagarh
	2013-14	Biotechnology Chemistry Computer Science	Sickle cell anaemia test and awareness programme at Jamgaon R. Patan. Sickle Cell Anemia testing Camp organized at Govt. College, Chuikhadan. Guidance to class 12 th students of village Govt H.S. school, Aheri. Seven Day workshop for School Children of Govt H.S. School, Deepak Nagar Adopted by our NGO ‘Jan Unnayan’ on computer basics.

	2014-15	<p>Geology</p> <p>Chemistry</p> <p>Microbiology</p> <p>Computer Science</p> <p>Biotechnology</p>	<p>Rain water Harvesting and Nepal earthquake disaster</p> <p>Inspire scholarship guidelines for class 12th student of Govt H.S. School, Deepak Nagar</p> <p>50 students of Govt Higher Secondary school, Aheri, Dhamdha, visited chemistry lab and got acquainted with the lab techniques of chemistry.</p> <p>Diseas Awareness Camp for preventing prevailing diseases for Govt H. S. School, Durg for class 9th to 12th students</p> <p>Two Day workshop for school teachers and one day workshop for School Children of Govt H.S. School, Deepak Nagar on computer basics</p> <p>Sickle Cell Anemia testing Camp organized at Department of Biotechnology, Govt. V.Y.T.PG. Auto. College, Durg.</p> <p>Sickle Cell Anemia testing Camp organized at Govt. H.S. School, Khamhariya.</p> <p>Sickle Cell Anemia Testing Camp Organized at Govt. H.S. School, Khapari.</p>
	2015-16	<p>Physics</p> <p>Zoology</p> <p>Botany</p>	<p>Digital India and awareness about links for online processes at Govt H.S. school, Thanaud, our adopted village.</p> <p>‘Awareness camp for health n hygiene, Blood group determination and Nutrition’ Govt middle school, Potia kala.</p> <p>Practical on plant physiology,</p>

		Biotechnology	anatomy, cell biology were taught to the students of Sunshine H.S. Schools Sickle Cell Anemia testing Camp organized at Department of Biotechnology, Govt. V.Y.T.PG. Auto. College, Durg.
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- **Mentoring of school teachers**

It may be noted that during 2011-15 there was a drive to fill the posts of lecturers, vacant at schools, particularly in remote villages. During this period hundreds of our students passed out from various streams, joined as Shiksha Karmi. They often seek consultancy regarding lab setting, purchase of equipments, updates on their curriculum and look forward to the faculty of this institution for mentoring and academic support. So there is a close connection between the teaching fraternity of schools and our institution as they still feel connected to this college. Apart from this, our faculty members have also extended their expertise as resource persons in various training programmes organized for school teachers.

- 2014-15: **Mentoring of school teachers** through training programmes to update their knowledge and develop new teaching methodologies in 6 science departments **under the STAR college scheme of DBT, GOI.**
- 2015-16: **Mentoring of school teachers** in collaboration with district school education authority. Professors from the faculty of physics, chemistry biotechnology and maths were invited as resource persons to provide consultancy to school teachers to update them and share new teaching methodologies to teach science.

(B) Guidance and consultancy cell :

An interdisciplinary Guidance and consultancy cell was established in **February 2015** comprising of the faculty members of Psychology and Sociology departments open for both in-house and outside students. Till date 19 students have attended counselling sessions. This cell not only provides career guidance but also deals with the psychological problems discussed by the students like stress management, to overcome complexes etc.

(C) Assessment and Accreditation Consultancy for neighbouring colleges by IQAC of our college:

Being the first 'A' grade college of the region apart from being the lead college of Durg District, Our institution provided the necessary consultancy regarding the preparation of SSR, development of Quality culture in nearby higher education institutes. Here is the list of lectures and district level workshops organized by the IQAC of our college at our college as well at nearby institutes.

S.No.	Year	Activity	Outcome
1	2015-16	Around 68 Extension Lectures on NAAC parameters by IQAS members	Sensitization for accreditation and quality consciousness
2	2014-15	5 RUSA workshops for developing quality culture and Awareness for NAAC parameters	Quality consciousness amongst HE institute
3	2013-14	Workshop of all the stakeholders for suggestions to be sent to MHRD for Preparation of National Higher Education Quality Framework	Recommendations made for quality improvement (Selected amongst 20 institutions nationwide for sending suggestions)
4	2012-13	District Quality Circle was formed	Developing strategies to implement various measures taken for quality education

3.5.2 Does the college have College – Industry cell? If yes, what is its scope and range of activities?

The college established CIAC (Committee for Industry – Academics Collaboration). The executive committee consists of the members from both industries and academia. A post of Industry Coordinator was created to develop an industry interface. Distinguished personalities from industry and state Govt agencies like Chhattisgarh Renewable Energy Development

Agency (CREDA), Council for Industrial and Technical Consultancy(CITCON), Chhattisgarh State Industrial Development Council(CSIDC), Chhattisgarh State Skill Development Agency (CSSDA)etc are the members of advisory boards. Senior academicians and industry representatives are the executive members of this committee. Till now two programmes have been organized under its banner, and many more to follow:

1. Workshop on "Employment opportunities in the field of solar energy" :

- (A) The flagship programme of "Committee for Industry Academia collaboration "(CIAC) of our college was a one day workshop on "Employment opportunities in the field of solar energy" on 2nd January 2016.
- (B) This workshop covered all the facts and figures regarding the employment opportunities and kind of skills required for availing them. The list of invited speakers included stalwarts in the field like Shri Shailendra Shukla, CEO CREDA and shri P. Nimonkar, Head, CITCON along with heads of CSIDC Durg and CSSDM are being invited.
- (C) The beneficiaries of the seminar included around 86 engineering students from electrical, electronics, civil branches UG /PG students from pure sciences, PGDCA and students from commerce and management stream.

2. Basic Solar Training Programme by IITB spin off 'kwatt solutions':

Chhattisgarh is being number one state of India in the Roof top solar panel installations. An Industry Park is going to be established soon, in which many national and multinational solar industries will start functioning. Keeping in view the future prospects our institution collaborated with 'kwatt solutions' a spinoff of IITB, for organizing a basic solar training programme.

- The two day solar training programme was organized on 19th & 20th March 2016.
- In all 70 students from our institution along with those belonging to the nearby degree and engineering colleges attended the programme.
- The programme covered every aspect of solar photovoltaics beginning from modelling, designing, energy auditing, and fabrication of some fundamental circuitries for solar mobile charger, and light seeking robot.
- A 5 day advance training programme is scheduled in next session.

- A MoU is to be signed shortly with 'Kwatt solutions pvt. limited' for future collaborations in the field of solar energy projects and training.

3. Future Plans:

Recently CIAC invited the general manager of Central Institute of Polymer engineering and Technology(CIPET) for signing an MoU as a knowledge partner in future training programmes related to plastic moulding , packaging, recycling as well as in collaborative research projects.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Our institution has been recognized as a 'Center of Excellence in Science' by the Govt of Chhattisgarh. It has been serving the society through providing quality education to students from the marginalized society; for last 58 years. Apart from this, our faculty members are highly qualified and are very active in the field of research. *All these add up to make our college a natural choice to Govt agencies as well as professional from other institutions and society in the neighbourhood , when they need an expert for consultancy.* Our faculty members have been associated with many consultancy projects like social counselling at Bhilai Steel Plant, Rain water harvesting project of Nagar Nigam, Durg ,Designing and conducting survey of medicinal plants of the Dept of Forestry, Designing and conducting Socio – economic surveys etc.

- **Exclusive centers that are known for consultancy services in the college:**

We encourage and supports faculty members to establish the centres of excellence. The Institute has established four such centres of excellence namely:

1. Centre for Thermoluminescence Studies:

This center focuses on sample preparation and characterization of thermoluminescent material. We have a very sophisticated instrument TLD reader in our physics dept, we have a senior faculty member who has an expertise in the field of Thermoluminescence. So the dept of physics decided to establish this consultancy service. It caters to the needs of research scholars from nearby academic institutions like Pt RSU, ITM Nagpur, Disha

College of Engineering and Tech Raipur, CSIT, Durg, NIT Raipur etc. to name some. Several consultancy projects have been successfully completed at the centre in which research work has been supervised for Engineering projects, M.Phil dissertation, INSPIRE fellows. and Doctoral research.

2. Centre for Microbiology studies:

The Microbiology department of our college has been developed as a center for excellence in Environmental Microbiology, Antimicrobial Activity and Microbial Based Secondary Metabolites Studies. The students from various institutes are being registered for their project work. Recently an MoU was signed with Govt Science College, Bilaspur (C.G.) for collaborative research work.

3. Centre for Biotechnology Studies:

The department of biotechnology of our college has made a mark in the field of research and consultancy over the years. It is rendering its consultancy services in multiple fields like mushroom cultivation, consultancy and extension services for sickle cell anaemia, Medicinal plants and edible mushroom cultivation. It has fruitful collaborations with various government agencies as well as with various reputed academic and industrial institutions.

4. Centre for Environmental studies and kinetics:

The thrust area of consultancy of extension of the department of chemistry is environmental studies. It has many faculty members who have expertise in environmental remediation. The facilities for Soil testing, Water testing, environmental sample testing etc is available in the department. Researchers from various educational institutes have been performing experiments for their research and project works.

5. Nodal Center for solar applications: (Latest Venture)

The College has signed a MoU with IIT Bombay, after which a Solar Training Lab and a Consultancy center for solar applications will be developed in our college. As a first step a two day basic solar training programme was organized on 19th and 20th march 2016. These centre activities are managed by faculty members, research scholars and student volunteers. Consultancy is publicized through information disseminated by word of mouth and college brochure.

3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?

College supports and encourages faculty members to offer their expert consultancy services to industry, Government and Non-Government Organizations, other educational institutions and for community development. Faculty members are provided with infrastructural and financial support, laboratory facilities and on-duty leave for carrying out their consultancy projects.

3.5.5 list the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

Physics

Table : Details of Consultancy Services provided by the center for Thermoluminescence Study.

S.No	Year	Name of the beneficiary	Institute	Title of the project	Revenue generated
1	2011-12	Prof Manish Kalra	Govt. College, Bhilai 3	Synthesis and TL study of different impurity doped alkali halides	Free of cost
2	2011-12	Brijlata Sharma	SSCET, Bhilai	Synthesis and TL study of ZnCdS: Au nanoparticles	Free of Cost
3	2013-14	Shadab Ahmad(kishore Vaigyanik protsahan Yojna)	IISc Bangalore	Synthesis and TL study of ZrO ₂ :Eu ³⁺ phosphor	5000/-
4	2014-15	Parvinder Sing (group of 4 students)	BIT Raipur	Analysis of strength and characterization of material	5000/-
5	2014-15	Divya Gurupanch (group of 4 students)	BIT Raipur	Upconversion behaviour of rare earth doped materials for low power consumption	5000/-

6	2015-16	Lukesh Dewangan (group of 4 students)	CSIT Durg	Synthesis and TL studies of variable conc of Dy ³⁺ doped Sr ₂ SiO ₄ phosphor	5000/-
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Biotechnology

Table: Details of Consultancy Services provided in the Biotech Department.

S.No	Year	Name of the beneficiary	Institute	Revenue generated
1.	2014	Dineshwar Yogendra K.	Govt VYT Durg	5,000/-
2	2014	Prerana Anjali	Govt Science College,Bilaspur	5,000/-
3	2014	Tikeshwar Verma	Pt RS University, Raipur	5000/-
4	2015	Neha Kunjam	Govt Science College,Bilaspur	5000/-
5	2015	Simran Ganjir	Rungta College, bhilai	5000/-
6	2015	Yogita Sen	Govt Science College,Bilaspur	5000/-
7	2015	Tripti	Kalyan College, Bhilai	5000/-
8	2016	Rashmi, Puna ram, Suraj, Tameshwar, Tripti	Kalyan college, Bhilai	25,000/-
9	2016	Shikha Aarti	Govt Science College,Bilaspur	10,000/-

Microbiology

S.No	Year	Name of the beneficiary	Institute	Revenue generated
1	2014	Sharda Banerjee	Govt Science College,Bilaspur	5,000/-
2	2014	Tikeshwar Verma	Pt RS University, Raipur	5000/-
3	2015	Neha Kunjam	Govt Science College,Bilaspur	5000/-
4	2015	Simran Ganjir	Rungta College, bhilai	5000/-
5	2015	Yogita Sen	Govt Science	5000/-

			College,Bilaspur	
6	2015	Tripti	Kalyan College, Bhilai	5000/-
7	2016	Shikha Aarti	Govt Science College,Bilaspur	5,000/-

3.6 Extension Activities and Institutional Social Responsibility (ISR)

The vision statement of our college is *‘To empower the youth, especially belonging to the underprivileged sections of society through quality education by inculcating philanthropic values and enabling them to meet the challenges of the contemporary knowledge society’*. So the Institute is well aware of its obligations and responsibilities towards its larger stakeholder, which is society in general and the underprivileged section of it in particular.

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students’ campus experience.

The educational philosophy of the institution emphasises on promotion of social concern and good citizenship. The vision statement underlines civic responsibility among the students and faculty members. The endeavour for betterment of the weaker and the marginal section of society is implemented by the Institute through various departmental societies, staff club and NGOs run by the faculty members.

The need-based extension programmes organized by the institution are depicted in the following table. These initiatives infuse the spirit of altruistic service, team work, discipline, leadership and contribute towards societal and national development.

The details of activities organized by the NGO formed by the faculty members of this college namely ‘Jan Unnayan’, for the upliftment of the marginalized section of the society’, is as follows:

Table : Institutional Social Responsibility Initiatives (ISRI) Jan-Unnayan

Year	Activities	Outcome
2011-12	1. Corpus fund was generated 2. Registration of the NGO	Rs 2.5 lacs was generated in the first year each member contributing Rs 500/- per month.
2012-13	1. Adoption of Govt H.S. School, Deepak nagar durg 2. Free coaching for 30 meritorious BPL students arranged for various competitive exams .Selection of students through entrance exam annually.	Faculty members taught voluntarily in school helping students who were suffering due to lack of teachers
2013-14 and 2014-15	1. selection of 30 BPL and 60 APL students through entrance exam conducted by Jan Unnayan and their free coaching for various competitive exams	Cash awards worth given to the first three toppers of the entrance exam Financial support to students securing more than 70% in the entrance exam

2015-16	<p>1. Free coaching as above</p> <p>2. Appointment of one guest lecturer for science at the adopted Govt H.S. School, Deoak nagar; paid by Jan Unnayan.</p> <p>3. Adoption of village Thanoud by sociology department</p>	<p>The students in large numbers are now approaching the NGO for financial support.</p> <p>The coaching has initiated a good competitive environment amongst students</p> <p>Awareness activities and cleanliness drive was conducted.</p>
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- **SVEEP- Awareness programme for participative democracy:**

The systematic voters' educational and electoral plan (SVEEP) for the durg district is being conducted and managed by our college. Being the lead college our college was chosen to conduct the district and state level SVEEP programme. Our college works in close collaboration with the district authorities and state government, for this programme.

This programme focuses on motivating young voters to make their epic card, and get their names added to the voter list. Two students were nominated as 'Campus Ambassadors' throughout Chhattisgarh. These students actively participated in various programmes organized under this programme. Various activities organized under this programme is as follows:

1. Street plays based on the theme vote without fear and without greed. Students of the dramatics society of our college performed the street play in various villages and colonies of Durg and our college. This play was appreciated by one and all and it successfully generated awareness amongst youngsters for voting without fear and greed.
2. Rallies were organized by the NCC and NSS units of our college and throughout Chhattisgarh for voter awareness.
3. Various competitions like Rangoli, Poster, Slogan writing, Debate, Elocution, etc were organized at our college for last two years under District level SVEEP programme.
4. This initiative has been able to reach to thousands of young voters and motivate them to actively participate in the electoral process.

- **Extension Activities for Financial Literacy:**

1. The department of commerce has taken a unique step by introducing 'Commerce Competency Exam' for school students in which more than 200 students participated. Commerce is a popular subject amongst students, which is generating huge employment opportunities. This exam initiated an interest amongst school children to join commerce after schools.
2. The commerce Lab; Innovation for financial literacy: has been established in January 2015 for generating financial literacy amongst students through various exposure programmes related to the working of business organizations and policy makers. The commerce lab describes the process of banking, insurance, Taxation, foreign trade, corporate affairs, stock exchange etc. attractively through ICT enabled teaching techniques. Till date more than 146 students from 14 nearby schools and more than 250 PG/UG students from our own college have visited the commerce lab.
3. Dept of economics has been organizing popular extension lectures, visits to nearby schools, visit of school children to the commerce lab for generating Financial Literacy amongst students. Some of these lectures are tabulated below:

S.No.	Year	Topic	Expert's Name
1	2015-16	Budget 2016 & taxes Bharat : Ek arthik Paridrishya Economical growth of Chhattisgarh	Shri M. C. Jain Dr Hanumant Yadav Dr. Vijay agrawal
2	2014-15	Budget Processing Importance of Economics n Commerce	Dr Ashok Parakh Dr. C. Nathwani Dr. A. Makheeja
3	2013-14	Research methodologies	Dr. C. Nathwani Dr. K.S. Rao
4	2012-13	FDI(Foreign Direct Investment) Career in commerce	Dr R. Brahme Dr H.S. Bhatia, Dr. K.L. Rathi, Dr. R.K. Tiwari
5	2011-12	Economic policies New Industry Policy	Dr Shailesh Choubey Dr. Ashok Parakh

- **Awareness Campaigns for Environmental Initiatives:**

Environment Education and environment awareness is being in focus in every academic institutes. The IQAC of our college organizes special classes for environmental studies for students of all the faculties. The projects based on environmental issues in the neighbouring area are conducted under the supervision of our faculty members. Apart from this, every year a number of awareness campaigns are organized by the academic societies of our college, some of them are tabulated below:

S.No.	Year	Department	Activity
1.	2011-12	Geology	Environment Awareness camp at Dongargarh by UG students
2.	2012-13	Sociology	Swacchata Abhiyan for School Children
3.	2013-14	Chemistry Zoology	Awareness Programme against use of Tobacco and Plastic within campus by PG students. Awareness Programme on Wild Life conservation.
4.	2014-15	Chemistry Mathematics	Awareness Programme at Govt. Higher Secondary School, Village Kodia Two lectures on World Environment Day (5 th June 2015). 1. Carbon Trading and Environmental Crisis by Prof. JaiPrakash Sao. 2. 'Rehabilitation of Aboriginal people from Forest' by Chief conservator of forest Dr. R.A. Pathak.
5.	2015-16	Chemistry Economics Geology Botany	1. Eco friendly Ganesha Idol making workshop. 2. National Seminar on Environmental Cost of Economic Development. 3. World Environment Day Celebration. 4. Awareness for Global warming and Biodiversity Conservation.

3.6.2 How does the College promote College-neighbourhood network and student engagement, contributing to holistic development of students and sustained community development?

The college promotes institution neighbourhood network and encourage social consciousness through the various initiatives.

- **Surveys and Project work:** The project based learning system was introduced in the curriculum in the year 2013. These projects not only motivate students towards research but also give them an opportunity to get an in depth practical knowledge of their subject. *The project is a compulsory part of our PG curriculum , so every year a number of projects are conducted by the students of 16 PG dept of our college. The number of project submitted reaches ~150 every year.*
- The department of humanities particularly sociology, political science and geography conduct surveys for their project work. *These surveys provide an opportunity to students to get an exposure about the ground realities of the society.* Most of the surveys are conducted to collect data pertaining to some of the current and burning issues of the society. All the programmes and activities are carried out after a thorough analysis of the need for such programmes by the faculty members. The tools like questionnaires, interviews, case studies etc. are developed, tested and then implemented, making the study quite thorough and authentic. Some important socio economic surveys conducted by various departments are as follows:

S.No	Year	Name of Dept	Project Title	Outcome
1	2011-12	Sociology	1.Awareness in tribal families about Sickle-cell disease 2. Study of mal-nutrition in children living in slum area	Awareness
2	2012-13	Political science	1.Impact study of Govt policy on Poverty line 2. Study of Role of worker union in ACC Jamul	A huge Database about govt policies and their impact on society is generated and the project reports and case studies are

3	2014-15	Political Science	<p>1. Study of Mid Day Meals policy in education</p> <p>2. A socio-political study on the Naxalite problem and its impact</p>	available at the repository of our central library for future projects.
4	2015-16	Sociology Dept Political Science	<p>1.A sociological survey of workers working under MANREGA plan</p> <p>2. Impact study of 'Swachhh Bharat Abhiyan' on students</p> <p>1. Role of NGOs in the development of women and children</p>	

- Socio-economic surveys conducted by the IVth SEM students of Geography:

Year	Title of the projects	No of students
2011-12	The level of education in slums and unplanned colonies/ fuel consumption/ Quality of Life survey conducted in 16 villages	16
2012-13	Availability of water resources and their management ' survey conducted in 23 villages	23

2013-14	Physical and socio economic survey of 22 villages to study the 'food habits and nutrition level' in them	22
2014-15	Physical, and socio-economical survey of 22 villages for studying the impact of marketing and sales strategies in rural areas under economic geography	22
2015-16	Survey of 21 villages for 'Agriculture land use and cropping pattern'	21

Industry visits:

Industry visits are an integral part of education. This enriches the knowledge experience of our students by providing an effective 'On The Job Training'.

Table: Industry visits organized by various departments for 'On the Job Experience'

S.No	Year	Department	Activity	No. of Participants
1	2015-16	Chemistry	Solvent extraction plant.	21
		Zoology	Somni/ Govt sugar factory, Kawardha	23
			Visit to Fish Farm	
2	2014-15	Geology	Visit to Gevra and Kusmunda coal mines of SECL, Korba	13
		Chemistry	Visit to	PG (39), UG(42)

			BSP, Supreme Industry, ABIS milk Industry	
3	2013-14	Commerce Chemistry	Visit to BEC food division Cotton Research Institute, Nagpur	157 UG(43)
4	2012-13	Geology Chemistry	Visit to Dipka coal mines of SECL, Korba SRT agro Pvt Ltd, 'Funda solar energy project' Durg	102 UG(45)
5	2011-12	Chemistry Physics/Chemistry	Parle G Biscuit Factory, Raipur Bhilai Steel Plant	UG(42) PG(58)

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

As an effort to stimulate social consciousness among students, the institution encourages student participation in JES, NSS and NCC. They promote understanding of social realities and develop concern for the well-being of the community particularly of the weaker sections. It also enriches the personality of the volunteers.

NSS motivates students to make positive contribution towards the community. It is sought to arouse social consciousness in students and

to provide them with the opportunity to work with the people around utilizing their knowledge constructively and creatively for the service to society. Annual activities include

- Celebrations of special days like sadbhavana divas(20 Aug), Gandhi Jayantee(2 Oct), Tree plantations(july), NSS day(24th Sept), World Aids Day (1st Dec).
- Annual Blood donation camps

Table: Details of NSS Activities

S.No	Year	Activity	Participants
1	2015-16	5 day National youth development entrepreneurship prog.(8 th – 12 feb)	40
2	2014-15	District level Cycle rally for swachhh bharat – swasthya bharat, sickling test, drawing /painting competition for school children/	124
3	2013-14	One day special camp with youth red cross on Women's health and nutrition(conducted by Dr Archana Chaouhan)	253
4	2012-13	One day special NSS camp at villege Kodiya with Yoth Red Cross for Health & Hygiene for children belowyears	245
5	2011-12	Rally on save trees, 'Go green Go clean'	143

- **NCC :**

The College has an NCC army wing under 37th CG NCC Battalion Durg Chhattisgarh. The vivacious cadets of college have made an impact not just in the battalion but have also won laurels at the state and national level. The cadets of the college participate in activities such as National Integration Camp (NIC), Annual Training Camp (CATC) Army Attachment Camp (AAC), Slithering, Firing, Para sailing training camps, Blood donation camp and Republic Day

Camps, organize Rallis and awareness camps. Every year almost 95% cadets successfully qualify for B and C certificates.

In the camp site, the students carry out social survey, conduct awareness campaign on national unity, volunteer in sanitation and cleanliness drives and initiate adult education programmes. Free sickle cell anemia checkups /dental camp etc are organized for the benefit of villagers.

The NCC Girl's wing incharge Dr Sapna Sharma Saraswat was promoted from the rank of Lieutenant to Captain in 2013, this promotion is prestigious as it depends on the overall performance of the officer in-charge.

Some of the major contributions are depicted in table below.

Table: Participation in various NCC Camps

Year	Details/ No of Cadets	Activity	Awards/ Recognition
2011-12	1.Senior under officer Shiva sahu 2. Cadet Madhuri Chandrakar	Thal sainik Camp	Represented State
2012-13	3male and 2 female cadets	State level Camp	Selected for D-Cat level
2013-14	1.Aifaaz, Dinesh sahu &Ku Nisha Kusuwaha 2. Mithilesh Sahu	1.RDC camp 2.National Games , NCC	1.Selection for PM Rally 2. Selection in kabaddee,
2014-15	1.Senior under officer Trilokee naath yadav 2. Sergeant Karan Sonkar and sergeant Akhilesh	1.Thal sainik shivir 2. Sate level camp	1. Represented State 2. D- Cat level

2015-16	1.Senior under officer Ratnakar Upadhyaay 2. Sergeant Shivnarayan	1.RDC camp 2. State level camp	1.Selection for PM Rally 2. D- Cat level
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• **Youth Red Cross :**

Youth Red Cross was established in 2011 with an objective of evoking awareness towards social responsibilities amongst youth. The activities of Youth Red Cross of our college is compiled below;

S. No	Year	Activity	Highlights
1	2015-16	1. Guest lecture on traffic rules and road hazards 17 th oct 2015 2. one day first aid training program 14 th dec 2015 3. Visit to old Age home pulgaon 11 th Jan 2016	Resource person Inspector Rajmani Singh 324 students of NSS & Red Cross 50 participants
2	2014-15	1. Plantation on world environment Day. 2. Seminar on Health & democracy 3. Demonstration on disaster preparedness first aid 4. Awareness camp at village Khamariya	Resource person Dr Praveen Sharma 123 participants Resource persons Dr Archana, Dr sangeeta and Dr Ajay govardhan
3	2013-14	1. Awareness lecture on health, nutrition and Hygiene at village	Resource person Dr. Archana Chauhan

		Khapri, 28 th sept 2013 2. Workshop for awareness about blood donation 4 th dec 2013 3. Blood identification and Donation – a noble cause, awareness camp organized on 6 th dec 2013	104 participants Collaborators HDFC bank The donors were felicitated with commendation certificates.
4	2012-13	Blood donation camp 7 th Dec 2012 Health & nutrition awareness camp in village Kodia 15 th dec 2012	
5	2011-12	Rally on world AIDS Day and red ribbon express rally	97 participants
6	Special achievements	1. Rajyapal award, Nipun Badge Rover State to Sushil Asati on 11 th dec 2014 2. Felicitation of ~ 25 volunteers for their commendable services	For outstanding work as volunteer Medals, certificates, and T shirts were sponsored by college

- Noteworthy Endeavour of Dept of Maths in collaboration with Homi Bhabha center for science education(HBCSE) and TIFR for popularizing Maths and enhancing numerical abilities amongst school and college students:**

Dept of maths has been organizing 'Regional mathematical Olympiad' in collaboration of Homi Bhabha center for science education(HBCSE) and TIFR(Tata Institute of Fundamental research); funded by CCOST Since 2010. The district coordinator of this event is a faculty of the dept. of Mathematics of our college. In this activity students from almost 15-16 schools of Durg City participate every year and it may be noted that the students trained here have a major share amongst those selected. The details are as follows:

S. No	Year	Enrolled	Selected for next level
1	2015-16	619	28 out of 36
2	2014-15	429	29 out of 36
3	2013-14	674	24 out of 36
4	2012-13	330	12 out of 30
5	2011- 12	394	26 out of 30

- Apart from this Madhav mathematics for undergraduate students is now an annual event organized at our college ,named after the renowned Indian mathematician of 14th century, in which students from nearby colleges participate every year. This event is organized in association with **TIFR and S.P. college , Pune** and is **funded by National Board for Higher Mathematics**. A national workshop on Madhav mathematics was organized on 27th Dec 2014 to motivate faculty members as well as students to participate in Madhav mathematics workshops to enhance their numerical abilities. The details follows:

S.No.	Year	Participants	No of Colleges participated
1	2015-16	56	04
2	2014-15	234	06
3	1013-14	94	03

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

A major part of the socio – economic surveys, research and extension work is focussed on the issues related to the most vulnerable sections of the society. The members of the staff club actively contribute for the charitable funds generated to help those in need. Some examples are as follows:

- **Initiative of the staff club for Naxal affected students: ‘Each one adopt one’**

The faculty members of our college join hands not only to celebrate occasions like welcoming newly joined faculty members, felicitating fellow professors for their 25 years of service, or simply having

luncheon together for celebrating some outstanding achievement of our college as a whole, but they have shown their empathy and have come together for some social cause too.

In previous years the donations to old age home in the vicinity of our college, providing educational toys and furniture for the school for differently abled students are some examples.

Recently the staff club of our college has taken up another noble cause. It is known that the Bastar area of Chhatisgarh is facing Naxalite problem. The natives of Bastar region are facing grave situation as the structures of a civic society are being attacked by the extremists there. In this situation the govt of chhatisgarh took an initiative to provide higher education to the children of naxal affected families.

70 such students were especially admitted last year (2014-15) to various graduation courses in our college. These students were given special attention and a congenial atmosphere was provided to them in order that they may focus on their studies. The staff club has decided that from this session a special mentoring will be provided to these students by the faculty members. The staff club has decided to mentor and support the academic excellence of these naxal affected students through guidance and support under 'Each One - Adopt One' scheme.

- Sickle cell anaemia is a deadly disease prevalent amongst some **ethnic groups** of Chhattisgarh. There is a constant need for generating awareness amongst people, who are prone to develop this sickness, along with constant blood test camps for marking the patients and get them medical assistance for treatment. This is being done by the Biotech dept of our college for last five years:

Table: Various programmes organized by the students of the Dept of Biotechnology on Sickle Cell:

S.No	Year	Activity	No of beneficiaries	No of students participated
1	2015-16	Sickle cell anaemia testing n awareness camp in village Kareli	228	15
2	2014-15	Sickle cell anaemia testing n awareness camp in village Govt H.S. School , Khamhariya, Govt VYT PG College, Durg, Govt H.S. School , Khapri	2530 226	60
3	2013-14	Sickle cell anaemia testing n awareness camp in village Govt College , Chhuikhadaan, and Govt College, Patan	286	15

4	2012-13	Sickle cell anaemia testing n awareness camp in village , Khairagarh	237	15
5	2011-12	Sickle cell anaemia testing n awareness camp in village , Kareli	221	15

- Conservation of Tribal culture to connect them to the main stream and motivate them to be future leaders:

A unique initiative taken by the faculty of the political science department has made a profound impact on the lives of thousands of tribal women throughout chhattisgarh, helping them in enhancing their leadership qualities and making them aware of their unique culture. Some salient features of the efforts being made by the female faculty members of the political science department who have themselves triumphed through their hard work and struggle, overcoming the hurdles faced due to their poor socio-economically backward family background, is as follows:

1. 2004: Pragatisheel Gondwana mahila samaj, Chhattisgarh' .
2. 2008: Publishing a magazine to provide platform to women from tribal background for sharing their views on politics, environment, health, and culture.
3. 2014: Production of CDs of 'Shambhu Geet' and 'Gaura Geet' as an effort to save the colourful tribal art, songs and dance forms.
4. 2015: Publishing a book titled ' Tribal politics and leadership' based on the research work done under the 'Research Award' conferred by UGC Cultivation of political awareness and leadership in tribal women through participation in electoral politics.

Our institution is proud of the Felicitations like ' Dr Bhanvar Singh Porte Adiwasi Yuva Samman' in 2007 and 2010 and ' Dr Ambedkar sammaan' and ' Dalit Sahitya Puraskar' in 2015 received by our faculty members for their sincere efforts to make the world a better place to live for the women belonging to the marginalized section of the society.

3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.

1. Dr Vedwati mandavi, Faculty, Political Science 'Dalit sahitya samman' for her book based on findings based on her research work on the socio political study of the leadership qualities in the tribal society of chhattisgarh, titled: 'janjateey samaaj aur netritwa'

2. Dr Suchitra Sharma, Faculty, Social science
 - a. 2013- Lioness Club felicitation for her outstanding work on women empowerment.
 - b. 2014-Ambedkar, the pride for noteworthy contribution in the field of education
 - c. 2015- Dr Radhakrishnan shikshak samman for noteworthy contribution in the field of education
3. Dr. Prashant Shrivastava:
 - a. Jal star samman
 - b. Global Teacher Role Model Award
 - c. Rajiv Gandhi Excellence Award
4. Sushil Asati, Student of B.A. I
Received 'Rajyapal award - Nipun Badge Rover State' for working as an outstanding volunteer of Youth Red Cross.
5. Nisha, student of B.Sc. Part III, was selected as the female 'Gender Champion' of our college, was felicitated by the college for her outstanding social work related to blood donation, registration of students for driving license, and arranging financial support for needy students.

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

The major learning outcomes of the extension activities done by various departments can be compiled as follows:

Table: Learning outcomes of the extension activities

Faculty	Activity	Learning Outcome
Faculty of Humanities	The English department organises English classes for the students of government schools	Application of language skills through various interactive learning programmes and develop language proficiency
	Programmes on drug abuse and personality development by dept of sociology	Understand the impact of drug abuse and create awareness among peer group

	Seminar and Project work centered on Naxlite problems conducted by Dept of Political Science and Sociology	Awareness amongst the urban students about the problems faced by people in naxal affected areas and their sensitization thereby, to motivate them to work for their support.
Faculty of Sciences	Computer literacy programme and arithmetic skills training for school teachers, school students and other dept of our college Awareness campaigns on health and hygiene, Pollution, Digital India campaign, etc in the neighbouring schools	Enhancement of ICT skills in school children having no exposure . Awareness about pathogenesis and deceases/Motivation to work against pollution/Develop skills to utilize technology for up-gradation of their quality of life
Faculty of commerce and Social Science	Financial literacy and inclusion programmes are organized for school children and students of other faculties	Cultivate saving habits and derive practical knowledge about government and bank schemes
Faculty of Library Science	Quiz and brain teasing competitions at Library	Cultivation of reading habit

These extension activities enhance the learning experience of our students in the following ways

- By generating *Awareness* and *Sensitization* on social issues
- By Initiating a *change in attitude*
- By developing *empathy* for the underprivileged section of the society
- By developing *problem solving attitude* to overcome societal incongruity.
- By Inculcating *organizational skills, team work* and *effective communication*

- By motivating students to become *responsible citizens* with a strong *social commitment*.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

2015-16-

- **Adoption of village Thanaud:**
Our institution has a unique feature of catering to the needs of first generation learners belonging to the people from marginal society of the region. The students after attaining higher education go back to their villages with an elevated mind brimming with new ideas and with a better exposure to updated knowledge and latest technologies. This strengthens our hypothesis that our students are agents of social change and we consider them to be 'SOCIAL ENTREPRENEURS'. One such student Smt Lalita Bharati, who graduated from our college. She was married to Shri Arjun Bharati, who is a post graduate in Botany from our college. Eventually Lalita was elected as the Sarpanch of village Thanaud. Thanaud was facing a peculiar problem, the school children of Thanaud were addicted to a narcotic drug (Ganja). The dept of Sociology took an initiative and conducted a socio economic survey. The outcomes of the survey was discussed with the members of Panchayat of village Thanaud. Being an alumni of our college Lalita looked forward to our college for mentoring and support. So, after this preliminary exercise the village was formally adopted by our college, with a firm strategy to address the prevailing problems of the village.
Till now the college has conducted two awareness programmes in the village
 - Awareness about Sickle cell anaemia.
 - Anti Drug Drive for school children as the flagship programme
 - Awareness for digital India programme, providing links and information about the online processes.
 After intensive interaction with the Village Panchayat the plan for the next session will be approved and implemented.
- **Swachhha Bharat Abhiyan:** A street play was written focussing the issue of lack of personal toilets in home. In Chhattisgarh, village dwellers particularly women die of snake bite, are met with accidents, are vulnerable to crime when they go out during night. This play was specially performed at various villages of durg district

between 17th March to 21st March 2015 by the students of Physics Dept. of our college; as a part of “Swachchh bharat abhiyan” of Durg District, in collaboration with collectorate, Durg, NABARD and an NGO Society for Integrated development of women. The students got paid by the NGO. But the most important outcome was the overwhelming response of the villagers which enhanced the self confidence of students, and motivated them to fulfil their social responsibility.

2014-15-

- Public Library service was started by the central library of our college on 10.4.14. The library is now open throughout the week. This initiative has made a very positive impact on the society, apart from building a rapport with the community.
- Biotechnology Department was instrumental in generating Self employment and Entrepreneurship amongst students in the field of Mushroom cultivation . Many students are now residing at their villages earning handsomely. This has motivated many more persons in those villages towards self employment.

2011-12-

- Analysis of arsenic in ground water and its impact on human body was performed. A cross sectional study on the impact of ‘Arsenicosis’ on human population was performed by the students of the dept of biotechnology . A majority of the population was suffering from the disease. Outcome of the study was sent to govt authorities and the remedial measures were taken by the govt agencies.

Extension activities are organized catering to the needs of the community. The institution involves panchayat members and local community in the organization.

3.6.8 Does the College have a mechanism to track the students’ involvement in various social movements / activities which promote citizenship roles?

Gender Champion: The concept of Gender champion was introduced in the higher education institute by the Ministry of Human Resource and Development last year. According to a circular released by the University Grants Commission (UGC), all universities and colleges across the country are being encouraged to set up platforms where gender equality can be discussed freely.

“In order to promote gender equality, guaranteed by Article 15 of the

Indian Constitution, we need to change the mode of interaction at all levels home, school, workplace and so on.

To increase the outreach for creating an environment that fosters equal treatment, government envisages engagement of ‘Gender Champions’ in all school and colleges across the country,” states the circular.

The purpose of gender champions, states the circular, is to engage young boys and girls to challenge and shift gender norms that contribute to girls and women having less worth, opportunities and decision-making ability than boys and men.

Two students of our institution were selected as male and female ‘Gender Champions’ under this scheme. Both of them belonged to financially and socially backward section of the society. They performed their duties efficiently to sensitize the youth on the gender issues. A special prize was conferred to the female gender champion after considering the feedback regarding their performances.

Case studies: Alumni working as social entrepreneur:

Our institution caters to the needs of students belonging to socially and financially backward classes. Most of our students belong to families who depend on farming for their living. In this condition most of the students have to work in their farms during their studies, and they prefer to get employment in the vicinity of their village. This may be seen as a major threat for their growth, but some of our students have seen this as an opportunity to do something not only socially relevant but also provided them employment opportunities. These students belong to minorities and socially backward classes. Here is a case study of those students working on development projects in close association with the government bodies and NGOs; working as social entrepreneurs.

- i. Azhar Qoraishee:
 - ii. Jeevan Tamrkar:
 - iii. Avinash:
 - iv. Lalita Bharati: only one having a graduation degree out of 16 sarpanch of various janpad panchayat of Durg Districts.
- The students performing social services under the extension activities are planned by the coordinators of NCC, NSS and Youth Red Cross. These activities are based on the feedback, sometimes are need based or as directed by the authorities and are monitored by the coordinators. The college has a well-structured mechanism in the conduct of various extension programmes. From the orientation to the collection of feedback, the staff co-ordinators guide and monitor the student

volunteers and their involvement in various social activities. The practices adopted are as follows:

- Registration of students in NSS, NCC, YRC are undertaken
- Faculty members coordinate various extension programmes to execute them effectively
- Conduct of regular meetings/activities and training – attendance register and activity registers are maintained in NCC, NSS, Youth Red Cross and all the concerned departments.
- Students are felicitated for their outstanding service to society by the college in the Annual Day ceremony.
- Students prepare reports of their experiences pertaining to the extension programmes

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.

Table 3.23 Association with other Institutions for Outreach and Extension

Catagory	Institution	Extension/ Outreach
Neighbouring schools	Govt H.S. School, Deepak Nagar, Durg Other Govt/ Pvt.Schools	The school is adopted by the NGO run by our college. Need based lectures, Lab Visits and computer training is provided to the students deprived of basic facilities Training programmes and refresher courses are conducted by our faculty members as and when required.
Higher Educational Institutes	Being a nodal college of durg district , in all 55 govt and pvt colleges are lead by our college for their administration and academic development, for coordination with state government etc.	RUSA workshops organized for quality enhancement and for familiarization of NAAC accreditation process. A quality circle was formed for the growth of quality culture in these campuses.

Village communities	Gram Panchayat, Thanaud	Anti Drug campaign for school children Sickle cell awareness Program was conducted
Blood bank/ health sector	HDFC sponsored Chandulal Chandrakar memorial Hospital Maitree Dental hospital	Blood Donation Camps, Eye donation Sickle Cell Awareness Subsidised treatment of govt employees Organized dental check up camp at our college
Administration	Collectorate, Durg(C.G.)	The college administration is working closely with the district administration for the implementation of various Govt programmes like: <ol style="list-style-type: none"> 1. Mukhyamantree yuva jeevan Kaushal vikas yojana of state govt. 2. SVEEP programme 3. Swachchha Bharat abhiyan 4. Mukhyamantree kaushal vikas

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

- I. Our college secured first rank in Chhattisgarh state & recognised by department of higher education under Mukhya Mantri Panchmukhi Yojana in 2015-16.
- II. Year 2014 'Sanskar Bharti', a voluntary organization for generating awareness for Indian Culture felicitated our institution.
- III. Year 2015 'Gayatree parivar', a voluntary organization felicitated our institution.

3.7 Collaboration

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

Association with institutions / NGOs are vital for the dynamic growth and development of the college. Such collaborations have resulted in mutual benefits. The lists of major collaborative ventures of the college are listed below:

Table 3.24 Details of Collaboration

Partnering Institutes	Benefits
USIEF, Fulbright Fellowship	Prof Jon Harber , Perdue University USA Visited our college in 2015 in Faculty Exchange Programme
Govt Science College, Bilaspur	MoU for Research activity, Curriculum development
KWatt solutions , Chhattisgarh renewable Energy Development Agency(CREDA)	MoU on Industry academia partnership for, solar training, internship
CIPET(Central institute for Polymer technology)	On the Job training
IIT Bombay, MHRD spoken tutorial programme	For sharing and upgradation of learning resources in ICT
Chhattisgarh Industrial and Technological Consultancy (CITCON)	Consultancy and training program

<ul style="list-style-type: none"> Central Institute of Agricultural engineering, Food processing Department, Bhopal, Govt Science college, Bilaspur 	Internships, projects and fieldwork
IISc , Banglore	From 2011 onwards per year 2 -3 UG/PG students attend the summer courses under national MTTTS programme organized by IISc, Banglore
Mahendra Finance	Placement camps are organized
Ajim premji Institute, Banglore	Placement camps are organized
Vedanta , (Aluminium Industry)	Mega placement camps are organized

3.7.2 Mention specific examples of, how these linkages promote

Curriculum development:

- We have an active network of subject experts such as distinguished members of board of studies in all faculty belonging to various reputed institutes, the examiners and invited speakers with whom strong professional linkages have been developed over the year. In every alternate year when the meeting of board of studies is organized , all the valuable suggestions given by these experts are discussed and implemented for curriculum reforms.

List of members of board of studies and subject experts:

S.No.	Name of the expert	Institution	Subject
1.	Dr Arti Shrivastava	Central University, bilaspur	Chemistry
2.	Dr Kallol Ghosh	Pt R.S.U., Raipur	Chemistry
3.	Prof A.K. pati	Pt R.S. U. , raipur	Zoology
4.	Dr. P. Diwan	National Instt of Tech, Raipur	Geology
5.	Dr. S.S. pandey	Director, R.G. Center for Biotech, Nagpur	Biotechnology
6.	Dr. S.B. Zade	RTM Nagpur Univ.	Biotechnology

		Nagpur	
7.	Smt R. Sing	Dr Rangnathan Istt of Lib Sci, Jhansi9M.P.)	Lib Science
8.	Dr. S.J. dhoble	RTM Nagpur Univ	Physics
9.	Prof Amreesh Chandra	IIT Kharagpur	Physics
10.	Prof Yadav	Allahabad	Chemistry
11.			Sociology
12.	Prof Abha Paul	Pt RSU , Raipur	History
13.			Commerce

Internship, On-the-job training:

- 4 students have attended hands on training programmes at IITB and IISc Bangalore in 2013-14
- 5 students attended workshop on lamp phosphors at Baroda University
- Three students attended international workshop on material modelling workshop at Jhansi, Raipur and Bhilai, organized by our collaborator MTU, US
- Govt Arts and Science college, Bilaspur, provides support for our students for doing their project work for PG students of microbiology.
- The students of Biotechnology have visited CSBR, RTM Nagpur University, Nagpur, ATG Lab Pune, Sai Bioinfosys- Nagpur, Usha Biotech- Hyderabad, Nitza Biotech, Hyderabad, Dr. Reddy's Lab, CICR- Nagpur, ETHIX Pharma – Bilaspur for completion of their project work.

Faculty exchange and development:

- Linkage with Purdue University, US led to faculty exchange as one of our faculty member Dr Prashant shrivastava visited this institute and one environmental scientist Prof Jon Harbor visited our institution and imparted his valuable findings of the field.
- Linkages with Pretoria University, South Africa(Biotech)
- Linkages with ISZC Society, China. (biotech)
- 2011, Prof Rakesh Tiwari received summer research fellowship and did research work under Prof. Kannan of Central University, Hyderabad.
- 2015, Prof Anil Kumar, has been invited to Japan by ISZC society.
- Prof Ajay Singh, has been invited to Nepal as resource person.

Research, Publication:

Almost all the linkages have made an impact in enhancing the quality of research. The faculties collaborate in paper writing, preparing research projects, scientific interactions and this has certainly created an exciting research environment at our institute.

Consultancy, Extension:

- Solar Training Center established in collaboration with kWatt solutions, IIT Bombay is going to train students of this region enhancing their employability in the field of solar energy.
- The VTP on mushroom cultivation, retail marketing and sales and electronic equipment repair will be crucial in developing skills which will make our students more employable. These will be established with related industries as the knowledge partners.
- MoUs are to be signed with industries for more campus selection drives to be organized at our college in near future.

3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

Academic partnership in the institution is beneficial to the faculty members in developing new teaching tools, and help students to increase the extent of their knowledge. Collaborative endeavours and off campus visits help to learn different approaches of solving a problem. International visits and exchange programmes trigger intrigue and creativity of pursuing new arenas of research by sharing knowledge, learning and building consensus.

The long term perspective plan of the college sets the targets of excellence in curriculum, teaching-learning and research. The academic partnerships fostered with Institutions of National and International repute enable the institute to strive towards the set developmental goal.

- I Dept of Biotechnology has signed three MoUs
 - a. 2013: With Ethix Pharma , Bilaspur for exchange of scientific expertise
 - b. 2013: With ATG lab, Pune for exchange of expertise in the field of Molecular biology.
 - c. 2015:With ‘Sai Bioinfosys’ for Dry lab work at Their lab and wet lab work at Dept of Biotech, Govt VYT PG Auto College, Durg.
- II Department of Microbiology has signed an MoU with Govt E.R.R. College of Science, Bilaspur (C.G.) for collaboration for research projects. duration 2016-2020.
- III 2016: Dept of Physics is signing an MoU with kWatt solution , IIT Bombay for establishing a nodal center for Solar Energy . The students of our college will be able to do project work, research and innovations with the expertise of kWatt Solutions. The college will be able to organize solar training programmes annually.

3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

- Physics: Nodal Center for solar training and consultancy
- Biotechnology: i) Establishment of molecular biology lab;
ii) Incorporation of nanobiotechnology in the curriculum.
- Geology: Petrological optical microscope with photographic attachment. Cement Industry and research scholars.
For Rock analysis
- Vocational Training Programme along with Chhattisgarh State skill development agency (CSSDA), Govt of Chhattisgarh, India
- For Mushroom cultivation
- For Business and commerce
- Future plan of establishment of an incubation and innovation center based on plastic and polymer technology with CIPET as knowledge partner.

CRITERION –IV :**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 Physical Facilities****4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

The institute has a policy to meet requirement of each department/administrative section in the form of infrastructure facilities available. The institute ensures adequate availability of physical infrastructure in the form of equipments, books, ICT facilities, consumables, furniture, teaching aids etc. Financial resources in terms of grants from State Govt., UGC, *Janbhagidari*, Autonomous grant, D.B.T, Research projects etc. are utilized to upgrade and improve infrastructure facilities. Future requirement is identified and augmented from time to time.

An adequate infrastructure is available to meet the requirement. The details are as follows:

- There are 52 well ventilated class rooms with sufficient seating capacity and proper electrification.
- Laboratories: 22 Undergraduate and post graduate labs.
- Computer labs: 02 labs with 90 computers.
- Commerce Lab.: 01 with 02 computers.
- Mathematical computational Lab : 01 with 10 computers.
- Language lab: 01 with 16 computers, audio visual facility, LCD, microphones and different software to learn language.
- The college has 15 Research-Labs. The detail is as follows :

Department	No. of Labs
Physics	- 03
Chemistry	- 04
Biotechnology-	- 04
Geology	- 01
Microbiology-	- 01
Zoology	- 01
Botany	- 01
Central Instrumentation Lab for Research work. -	01
- **Staff Room** – Each department has its own staff room. There is one common staff room with basic facilities

- **Administrative Section – 02**
 - i) Establishment section,
 - ii) Student welfare section for Administrative activities.
- **Autonomous Cell –**
 - i) Three rooms and one strong room with all facilities and security system.
 - ii) Separate room for Controller Examination (Autonomous).
 - iii) Examination Control Room.
- **UGC Cell and IQAC Cell –**
- To perform routine UGC activities and IQAC activities
- **Placement Cell –**

This cell coordinates with employers for recruitment/ placement.
- **Counseling Cell –**

This cell helps the students to groom their personality and increase their skills in choosing their career.
- **Information and help desk –**

At the time of admission the desk provides information about the different committees, the departments and their locations.
- **Amenities –**

All basic amenities are available in the college viz.

 - a) Information boards – 30
 - b) R.O. supplemented drinking water points- 12
 - c) InformWaste management box-26
 - d) Medical checkup facilities, first aid facilities.
 - e) Cafeteria for students and faculties.
 - f) Parking zones separately demarcated for bicycle, two-wheelers and four-wheelers- 03
 - g) Stationary center.
 - h) SBI ATM facility.
 - i) CCTV- cameras at different points covering whole campus.
 - j) Girl's common room with all basic facilities.
 - k) Ramps at every needful point for differently abled students.
 - l) LFD notice board for effective communication.
 - m) SMS alert system for students, parents and staff for quick dissemination of information.
 - n) Unique ID number provided to all students for their identification.
 - o) Online admission and examination form submission system available.

- p) Sports facilities for both outdoor and indoor games, coaching facility for sports activities.
- q) Separate washrooms for staff, office staff, boys and girls.
- r) Central library with a wide range of text books/reference books/e-literature in each subjects along with a research information centre.
- s) Reference section with reprographic facility in the library.
- **Following infrastructural facilities are available in the library building:**
 - a) Office/Chamber for Librarian-01
 - b) Office/Chamber for Assistant Librarian – 01
 - c) Reading rooms with proper ventilation & illumination-02
- **Infrastructural facilities available in college campus:**
 - a) *Radhakrishnan* Seminar Hall - Well equipped with latest multimedia facilities for presentations, workshops and conferences.
 - b) *Swami Vivekananda* Hall –A.C. conference hall with audio video facilities for workshops, meetings etc.
- **Auditorium –**

With a capacity of 500 students .
- **Smart class rooms – 03**
 - a) *APJ Abdul Kalam* Smart class room
 - b) *Dr. C V Raman* Smart class room (Dept. of Physics)
 - c) *Dr. Prafulla Chandra Ray* Smart class room (Dept. of Chemistry)
- **Stage-**

For conducting various extra-curricular activities.
- **Staff quarters-**

In the periphery of the college campus for ministerial and non-ministerial employees.
- **Sports facilities-**
 - a) Indoor Games :

Badminton, Chess, Carom, Table Tennis and Boxing Ring.
 - b) Outdoor Games :

Cricket, Hockey, Volleyball, Football, Basket ball, *Kho-kho*, *Kabaddi*.
- **Gymnasium -**

With basic facilities and equipments for staff and students.
- **Audience gallery**

For the spectators during the sports meets .
- **NCC unit**

The college has two NCC wings:

- i) Boys' SD- 54 cadets
- ii) Girls' SW - 52 cadet

Separate office for NCC. Two NCC officers, Major O.P. Gupta and Captain Sapana Sharma Saraswat are appointed to take care of boys and girls wings respectively.

- **NSS Unit**

The college has two NSS units :

- i) Boys' unit – 100 volunteers
- ii) Girls' unit- 100 volunteers

Separate office for NSS. Two NSS officers Dr. A.K.Pandey and Dr.Meena Maan are professor in-charge of boys and girls unit respectively.

- **Youth Red Cross –**

Office was established in 2015. 200 volunteers have been registered. First Aid facility is available in the Youth Red Cross office and in the Principal Chamber.

- **Suggestion/Complaint Box –**

Fixed at various spots in the college.

- **Printing and Reprographic facilities –**

Almost all the teaching departments, administrative section, examination control room, counselling cell, library and autonomy cell have reprographic facilities with printers.

- **Hostel :**

- a. Boys' hostel I : 60 Seater
- b. Boys' hostel II : 100 Seater (under construction)
- c. Girls' hostel : 50 Seater Girls' Hostel is nearly on completion.

In each hostel 10% seats will be made available for research scholars as per the policy.

- **Wash Rooms :15**

Separate wash rooms for boys, girls, office staff and faculty members

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

The college has a policy for the creation and enhancement of infrastructure facilities to facilitate students with updated labs, class rooms etc. Construction of 14 new class rooms is in progress from a grant of Rs 2

crores under the scheme of RUSA. The college has received a grant of Rs. 10 lacs from the fund offered by the hon'ble Member of Parliament, Durg for the construction of additional computer lab, which is under construction. Sports ground and indoor badminton hall is renovated. Renovation of the multipurpose indoor gymnasium and construction of basket ball ground is proposed. All the departments and administrative block have Wi-Fi facility. Sharing of Physical infrastructure among the departments and some other organizations with appropriate administrative control resume optimum utilization of available infrastructure.

Recent initiatives taken are as follows:

s.no.	Policy adopted	Year-wise Outcome
1.	Class room up gradation	furniture acquired in 2013, 2014, 2015 and 2016 to improve class room facilities
2.	Up gradation of labs	-Mathematical computational Lab upgraded in 2012. - Chemistry Lab upgraded in 2013. - Commerce Lab constructed in 2014. -Psychology Lab constructed in 2015, -Botany Lab upgraded in 2015, -Physics Lab upgraded in 2016. -Tracing tables purchased for geography Lab in 2016. -Display cabinets purchased for Botany Lab and Zoology Lab in 2016.
3.	Up gradation of ICT facilities	LCD Projectors, Projector Screens, Computers, Printers, Scanners have been purchased during 2013-2016.
4.	Up gradation of existing conference and seminar hall	Existing AC Conference Hall has been upgraded with Wall Screen, Computer, LCD Projector and Audio Visual facilities during 2014-2015.
5.	Up gradation of information facility	SMS Alert system for students, parents and staff for quick dissemination of information during 2014-15 Unique ID number is provided to all students since 2015 LFD notice board is available for dissemination of information from 2016.
6.	Creation of smart class rooms	Total-03 i) <i>APJ Abdul Kalam</i> smart class room, well equipped with ICT facilities like interactive board, interactive LCD projector and AV system in 2015, ii) <i>Dr. C V Raman</i> smart class rooms in Physics

		iii) <i>Dr. Praffula Chandra Ray</i> Smart class room in Chemistry are well equipped with ICT facilities like interactive board, interactive LCD projector and AV system.
7.	Green Campus Drive.	Green campus has been a priority of the institution. The college fraternity has taken concrete steps to implement the policy of keeping the campus clean and green. The department of Botany maintains the Botanical Garden. The garden committee ensures the greenery throughout the campus. Various departments alongwith NCC, NSS and YRC have organized “Tree Plantation Programmes” and Awareness Programmes.
8.	Safety measures	A barrier is fixed at the main entrance with a guard. Fire extinguishers are fixed in labs and in each block of building including library for safety purpose. CCTV cameras are fixed in labs and in each passage of building including library for security purpose.

4.1.3 Does the College provide all departments with facilities like office room, common room and separate rest rooms for women students and staff?

The institute creates conducive physical ambience for the faculty by providing good physical infrastructure and facilities for students and staff. Some of the departments have separate room for HOD, separate staff room, wash rooms etc.

Please refer to sections 4.1.1 and 4.1.2 for details of the infrastructural facilities being generated for individual departments and office of the institution.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

The institute has created many infrastructural support systems to meet the requirements of physically challenged students as follows:

- Ramps are available in each block of the building and in library.
- Wheel chair is available for differently abled students.
- Braille books and software are available for visually challenged students.

- Special furniture and ear phones are provided to hearing impaired.
- We also provide support of class IV employees to assist differently abled students as per need.
- The seating arrangement is made in the ground floor for differently abled students during examinations.

4.1.5 How does the College cater to the residential requirements of students?

The college provides a 60 seater boys' hostel with recreation hall, TV, Mess facility, computers, outdoor sports ground and Wi-Fi system. Construction of one more boys' hostel is in progress. A 50 seater girl's hostel situated in the campus is nearly on completion to provide accommodation to girl students.

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

The institute provides primary health services to the students. Medical facilities are provided to students through male and female visiting physicians whenever required. The government provides facilities for subsidized treatment for staff in various hospitals viz. BSR-Apollo hospital Bhilai, Chandulal Chandrakar memorial hospital Bhilai etc. The state government also provides medical reimbursement facility to the staff. Besides this the college also provides platform for the following activities:

- Alumni association organizes health camps for staff and students from time -to- time.
- Youth Red Cross society is also effectively supporting in organizing health camps, awareness programmes and blood donation camps etc.
- NSS and NCC units effectively serve the needy by donating blood and by providing emergency services.
- Sickle Cell Anaemia testing and counselling camps for the students as well as for the people residing in nearby villages is regularly organized considering it a potent problem of the state.

- Separate dental checkup, blood group detection and blood donation camps are regularly organized for students .

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

The sports department takes initiatives to promote sports in the following manner:

- Inter collegiate competitions on district level , state level and zone level are organized.
- Annual Sports Day is organized enthusiastically by the students and staff.
- Coaching for cricket, kho-kho, volley ball, basket ball is provided.
- International Yoga Day was observed in the year 2014 and 2015.
- To develop interest and to create healthy atmosphere, staff v/s students outdoor sports activities are organized every year on annual sports day.
- Financial support is provided to the sports persons like sports kit, blazers, food etc.

To motivate the students towards cultural activities various competitions like dance, drama, debate, creative writing, singing, rangoli, mehendi, salad decoration, flower decoration, cooking competition, poster making competition etc are organized every year at the time of Social- Gathering and Youth festival. Students are motivated to participate in cultural events organized during *Rajyotsav* by the district / state authorities, as well as by other institutions.

- The Women cell organizes motivational sessions for girls to prepare them to become self-reliant.
- Faculty members actively participate to groom the students for cultural activities.
- Financial support is provided to the participants in the form of dresses, transportation, food etc.
- The students selected in various events are fully supported by the college. Many students have represented the college at University level, State level and National level competitions in Youth festival.
- Students find ample opportunity to show their talent through various activities organized on special occasions like Independence day, Republic day, Birth Anniversaries of Mahatma Gandhi , Swami Vivekananda, Sardar Vallabhbai Patel etc.

- National Science Day is observed every year on the themes provided by the Government of India. Various competitions like model making, poster presentations, power point presentations, quiz competitions are organized on the occasion.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

The Library has an Advisory Committee with the following constitution:

Convener: Dr. Suchitra Gupta **Members:** 1. Dr. Nutan Rathod 2. Dr. Sandhya Agrawal 3. Dr. Anita Shukla 4. Dr. Shaheen Ghan 5. Shri V.K.Ahirwar

The members of the Advisory Committee meet regularly and work for the improvement of library facilities. Several innovative practices have been adopted in order to improve the library as a learning resource, some of them are:

- a) Automation and improvement of library facilities, 07 new computers with latest configuration have been installed.
- b) Reprography section.
- c) Internet facilities and Braille Book facility available.
- d) Reading room with specially designed furniture for students & staff.
- e) Separate Research and Reference section for PG students, research scholars and faculty members.
- f) SOUL software for library automation.
- g) Fifteen Post Graduate departments maintain their own departmental library. The procurement of books and journals in the central library is done as per the recommendations of the faculty members.
- h) A weekly quiz is organized throughout the year to inspire the students towards enhancing their information level.
- i) The library has improved its services in the last five years, based on the recommendations of the Library committee. Some of which are as follows:
 - Library premises have a prominent display of clearly laid out floor plan, adequate signage, access to differently abled users and mode of access to collection, display counter for new arrivals is available.
 - Separate Office Room/Librarian Room.
 - Establishment of a Research and Reference Section.
 - Establishment of a Reading Room.
 - Separate counter for circulation of books.

- Enquiry Counter.
- Notice boards.
- A Display Board for new arrivals.
- Four access points to search for books through OPAC.
- Touch Screen Display Unit.
- Television for current updates.

4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.)** - 900 sq mt.
- **Total seating capacity** –
70 Sq. Mts. reading room @ 20 Sq. Mts. Stack room
- **Working hours**
 - a) On working days - 9.00 am to 7.00 pm.
 - b) On holidays - 11.00 am to 2.00 pm.
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
Browsing lounge area, relaxed reading and IT zone for accessing e-resources are available.
- **Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection).**
Yes, all facilities are available.

4.2.3 Give details on the library holdings Total No.

a)	Print Books, Back volumes and Thesis	99205	
b)	Non Print (Microfiche, AV)	375	
c)	Electronic (e-books, e-Journals)	e-books	: 1 Lakh.
		e-journals	: 6000
d)	Special collection (e.g. Text book, Reference books, Standards, Patents)	15007	

4.2.4 What tools does the library deploy to provide access to the collection?

The college library has the following tools deployed to provide access to the collection:

- * **Electronic Resource Management package for e-journals through N-LIST, e-Pathshala.**

Yes, the library provides N-LIST Consortium of e-resources in different subjects for teaching, reading, self study and research. Users Click www.nlist.inflibnet.ac.in to login.

- * **Federated searching tools to search articles in multiple Databases :**
Through N-LIST.
- * **Library Website:**
All details with respect to college library are displayed at college website.
- * **In-house/remote access to e-publications:**
In-house/remote access to e-publication available.
- * **OPAC Electronic resources management package:**
It helps to access the books/journals in multiple ways like searching the title, author, subject, contents, accession number and ISBN numbers etc.
The central library is computerized through SOUL SOFTWARE of INFLIBNET centre, Gandhinagar. OPAC module of software provides facilities to search books. Users search a library catalogue to locate books and other materials available in the library. Users can reserve specific books through this facility. There are four computer cabinets used for OPAC facility in reading room of library. Web OPAC facilities are also available.

4.2.5 To what extent is the ICT deployed in the library?

- * **Library automation :**
The automation of library is towards completion.
- * **Total number of computers for public access – 10**
- * **Total numbers of printers for public access - 06**
- * **Internet band width speed –**
2 mbps 10 mbps 1 gbps
- * **Institutional Repository** –The library has institutional repository which contains research publications and Ph.D. Theses.
 - * Content management system for e-learning: Available.
- * **Participation in resource sharing networks/consortia-**
In library resource sharing network is available through N-LIST, Libraries of Pt. Ravishankar Shukla University Raipur and Indira Gandhi Agriculture University Raipur.provides loan service.

- College library extends reading facilities for those students who are preparing for competitive exams, NET, SLET etc. N-LIST facility is also available.
- RFID – Not available.
- e-services: e-services are available.
- The library provides N-LIST Consortium of e-resources in different subjects of college for teaching, reading, self study and research. Users click www.nlist.inflibnet.ac.in to login.
- **Online Thesis, Dissertation and Synopsis Shodhganga:**
Doctoral Thesis Repository, Online full text of thesis are available. Users can click www.shodhganga.inflibnet.ac.in and can access the online Thesis.
- **Shodhgangotri:** Users can click www.shodhgangotri.inflibnet.ac.in and access online Synopsis.
- **NMEICT:**
The National Mission on Education through ICT is a project of MHRD which provides a momentous opportunity for all the academicians.
10 NMEICT internet broadband connections are available – 01 in library for e-contents.
- **Online Public Access Catalogue (OPAC) :**
The central library is computerized through SOUL SOFTWARE of INFLIBNET centre, Gandhinagar. OPAC module of software provides facilities of search books by different approach of user. Users search a library catalogue principally to locate books and other materials available in the library. Users can reserve books by this facility. There are four computer cabinets available for OPAC facility in the reading room of library.

4.2.6 Provide details (per month) with regard to.

- * Average number of walk-ins -300 to 400
- * Average number of books issued/returned - 200-250 per day
- * Ratio of library books to students enrolled - 30:01
- * Average number of books added during last three years - 7650
- * Average number of login to OPAC - 50 to 70 users.
- * Average number of login to e-resources - 87
- * Average number of e-resources downloaded/printed - 600
- * Number of information literacy trainings organized - 01

4.2.7 Give details of the specialized services provided by the library :

Specialized services are provided by the library:

- * Manuscripts are given to students.
- * Reference Section established for PG students, Research scholars and faculty members for advance studies.
- * Reprographic facilities are available for all users.
- * ILL - Inter Library Loan Service is provided by Pt. RSU., Raipur and Agriculture University, Raipur.
- * Information Deployment and Notification facility is done through notice boards, intercom, personal interaction etc.
- * OPAC (Online Public Access Catalogue) is available.
- * Internet Access is available through 2 MBPS broadband. Wi-Fi facility is also available.
- * Download facility is available.
- * Printers are available.
- * Reading list/ Bibliography compilation- Yes
- * In-house/remote access to e-resources – Yes, these facilities are available.
- * User Orientation – new entrants are introduced to the facilities available at the college library through induction programme.
- * Assistance in searching Databases - Library staff assists the users and help them in searching database.
- * INFLIBNET/IUC facilities: NLIST is available

4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

Amount spent on books and journals are as follows:

S.No.	Year	Annual Budget Rs.	Amount Spent Rs.
1	2012-13	8,00,000	7,36,782/-
2	2013-14	4,00,000	3,78,638/-
3	2014-15	4,00,000	3,20,952/-
4	2015-16	15,00,000	13,06,402/-

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.

The library gets feedback from its users, students, teachers and various stake holders. Feedback is analyzed by the library advisory committee to improve and provide better library services.

4.2.10 List the infrastructural development of the library over the last four years.

S.No.	Item	Quantity	Year	Amt. spent Rs.
1	Procurement of more			
2	Printers, Scanners, Internet, Computers, Modem	06	2012-16	2,22,804
	New Books,	2069	2012-13	5,05,186
		1348	2013-14	3,78,638
		1518	2014-15	3,20,952
		2567	2015-16	8,06,402
	Up gradation of Library <ul style="list-style-type: none"> • Almirah • Chairs • Display Lobby stand • Construction of upstairs • Construction of research information centre. 	-	2012-16	5,00,000
3	<ul style="list-style-type: none"> • Software for bar-coding of books, procurement of magazine racks, e-Books, special furniture and books for students. • Expansion in library reading room. 	Brail Book 52 02 Spl. Furniture for differently abled students	2012-16	4,900 8,664

4.2.11 Did the library organize workshop/s for students, teachers and non-teaching staff of the College to facilitate better Library usage?

The library organizes workshops for students and faculty members to facilitate better library usage.

- A Workshop on 'Online Information Retrieval: Tools and Techniques' was organized on 20-02-2016. Discussions were made on the topic of Open Access and Plagiarism. Academic staff, Research Scholars and PG students participated in the workshop.
- A Seminar was organized on 07/10/15 for the M. Lib. Students.
- A lecture on new terminologies used in Nano science was organized in 2015.
- A guest lecture on 'Paperless library or e-library' was organized in 2014.

4.3 I.T. Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

- An IT policy will be implemented in near future to manage IT services in the institute. During the session 2015-16 nearly 4300 students have been allotted user ID.
- From time-to-time the website is updated and monitored by the web-site committee.
- In 2015-16 the Institute has deployed a good number of latest configuration computers under CPE Phase III. Customized developed software is deployed for admissions, exams and results.
- All the Departments have LCD Projectors, Printers and Scanners.
- There is provision of installation of Software, Hardware and Networking.
- Some computers of Administrative Section and the Computers of Computer Lab are connected through LAN.
- Wi-Fi facility is available.

4.3.2 Give details of the College's computing facilities (hardware and software).

- **Number of systems with configuration :** 260
- **Computer-student ratio :** Varies from department to department
- **Dedicated computing facility:** Computers are connected with printers and scanners .
- **LAN:** Computers are connected through LAN in Computer Lab and Administrative Section.
- **Wi-Fi :** Available in college campus.
- **Propriety software / Open source software:** N- LIST is available.
- **Number of nodes/ computers with internet facility:** 50 Computers, 05 in main library
- **Any other** - A good number of software is available in the College, Language Lab, Computer Lab, Dept. of Mathematics and Library.

4.3.3 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.

- Smart class rooms with adequate infrastructural facilities.
- LCD projectors in each PG department for Power Point Presentation in the class room and in the Computer laboratory.
- Wi-Fi facility in every department.
- SMS alert facility.
- e-learning resources in library.
- The institutional digital repository is available for research scholars.

4.3.4 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

The class rooms have been updated and equipped with ICT facilities for teaching and learning.

- Smart class rooms with smart board facility in the Departments of Mathematics, Physics and Chemistry. One Smart Class room is common for all.
- Audio-Visual conference room is available to teach the students through audio-visual system.
- A Language lab in the college is available to enhance communication skills.
- ICT is adopted in the Commerce for teaching and learning.
- IQAC & UGC Cell has been upgraded and refurbished.

4.3.5 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?

- Computers with internet facility are available in the departments to prepare computer aided teaching-learning.
- The faculty members utilize the internet facility and provide e-notes and relevant links to PG students and to research scholars for their projects and research work respectively.
- In the library N-List login and password are issued to the faculty members for quality teaching learning and research. The staff members can have access to e-content provided by UGC and other agencies.

4.3.6 How are the computers and their accessories maintained? (AMC, etc.)

- The college appoints technical experts for maintenance and repair of computers.

- The maintenance of computers, internet, Wi-Fi networking is done on contract basis.

4.3.7 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

The staff members and students of the college avail this facility directly.

4.3.8 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

- Budgets vary according to the requirements of the departments.
- An amount of 15 lakhs is allocated in CPE for deployment of computers. An annual maintenance of computers is done through funds provided by the college and through equipment maintenance services under UGC CPE scheme.
- Computer services are regularly provided in office staff, computer lab and various departments through annual maintenance contract.
- During the last five years computers have been purchased and maintained as per the need of the departments, computer laboratory and administrative sections.

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office/ designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

- The college deploys Building Construction Committee headed by a senior faculty member to supervise the new construction/extension, overall maintenance, etc.
- Different committees are constituted and the Professors-in-charge are appointed to look after the maintenance of garden, green campus, furniture, PWD works, RO water filter maintenance, internet & Wi-Fi facility, CCTV, cycle stand, canteen, parking zone etc.

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

- The college appoints technical experts for maintenance and repair of computers.
- PWD, Dept. of Rural Engineering, *Janbhagidari Samiti* looks after the maintenance of building.
- Electrification / gas supply system etc. is regularly maintained.

CRITERION-V : STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

The College has an independent system for student support and mentoring. It has a well established administrative structure and hierarchy in place for the purpose. The system includes the Principal, Head of the Departments, Hostel Superintendent, Faculty members and Administrative staff to address concerns of the students. They act as role models, mentors, and guides and address individual student needs as per requirement.

Various committees and bodies to monitor student mentoring and support mechanisms are in place. The Parent Teacher Student Association (PTSA) wherein each faculty member has been assigned and made mentor for 30 to 40 students has been formed. Teachers as mentors are made responsible and accountable for their assigned students. Also, Training and Placement cell, Cultural and Sports committees, Student Scholarship Committee, Committee on Right to Information and Public Service Guarantee, Guidance and Counseling Cell and Grievance Redressal cell etc. are in place to ensure timely support and help to students. Anti-Ragging committee, Discipline committee, Women cell, Committee on Atrocities against Women are also in place to provide help as and when needed. A Student Union, an elected body representing students also provides students a platform to raise their just demands. Students are free to contact faculty and committee members with their problems as and when required.

The institution also routes various scholarships to all SC/ST students as per Govt. rules, it also exempts students belonging to Below Poverty Line (BPL) from paying tuition fees. Besides offering various scholarships to students as per Govt. rules, stakeholders also sponsor awards, cash prizes and scholarships for meritorious students. *Shri Vishwanath Yadav Tamaskar* Memorial Award is presented each year to the student who tops across all streams and *Mrs. Asha Sharma* Memorial Scholarship is given to outstanding performer at U.G.(B.Sc.) level while *Prof. Prakash Maheshwari* award is given each year to the student who scores the highest marks at Post Graduate level in Economics.

“*Jann Unnayan*”, an NGO formed by professors of the College in the year 2012 wherein almost all faculty members contribute also financially supports students from weaker socio-economic backgrounds.

The Institution has also been supporting students from Naxal prone areas of the State .About **70** such students are at present studying in the College. Besides Government scholarships these students are being provided lodging facilities at the *Vigyan Vikas Kendra*. The institution also provides other facilities as per their requirements. The college is in process of devising a mechanism for mentoring, counseling and providing individual attention to such students requiring special help and support.

5.1.2 What Provisions exist for academic mentoring apart from classroom work?

- Apart from classroom interactions, students are provided ample opportunities to develop and grow in academics and related fields. Faculty members are available beyond classroom hours as and when needed.
- Weak Students in need of additional academic support are provided remedial classes.
- Student appearing for competitive examinations are provided books and guidance by the faculty members.
- Invited lectures and interactions are also held by departments to help students interact with experts in respective fields.
- Interdisciplinary Lectures are conducted by various departments to broaden the perspectives of students.
- Interdisciplinary workshops are also organized to help students gain knowledge of other streams. The Department of Computer Science has been conducting workshops and training for students of other departments to help them learn the basics of Computers, PPT, CV, e-mail and online form submissions.
- **13** Seminars, **4** conferences, **13** workshops and extension activities, study tour, field visits, projects, exhibitions and skill development lectures were also organized at regular intervals to mentor students beyond the curriculum.
- Faculty members also inspire students to undertake Research Oriented Surveys ; for example the Department of Economics conducted a socio-economic survey on Labourers working in the Rajhara mines.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counseling, soft skill development, etc.

- The College does provide personal enhancement and development schemes for students. During admissions students are guided and advised by a help desk and various admission committees to make the correct choice as per their desires and abilities.
- Induction/Orientation programmes conducted for first year graduation students to acclimatize them to college life and to facilitate smooth transition from school to college life.
- The Departments organize special invited lectures, interdisciplinary lectures and workshops. The aim is to build confidence and provide comprehensive and contemporary knowledge to students.
- The heads and faculty members also contribute by taking special classes to help students as per the need.
- Faculty members are constantly engaged in both academic and personal counseling of the students.
- The institution and all its stakeholders motivate students to participate in various co-curricular and extracurricular activities such as sports, cultural activities, NCC, NSS and Youth Red Cross to ensure all round development in students.
- Specific committees are formed to monitor the personal enhancement measures such as the Training and Placement Cell that keeps students informed about job opportunities, career identification and helps students find proper employment opportunities. Skill Development Scheme Committee has been established to ensure planned efforts at skill enhancement amongst students. Guidance and Counseling Cell as well as Grievance Redressal Cell are also in place to ensure a healthy academic environment, quality of life and well being in students.
- The institution also involves its Language lab, Commerce lab and Computer lab in soft skills development such as Language improvement, understanding financial aspects and transaction and making students technology savvy.
- Library Staff also contributes towards personal enhancement of students by providing them access to a well enriched library where books on general studies, magazines, newspapers are made available. Access to e-books and e- journals is also provided. A Reading room has also been provided and ICT facilities for students as well as research scholars have been upgraded to help them have access to comprehensive knowledge. There is Open Access Catalogue (OPAC) system in library.

5.1.4 Does the College publish its updated prospectus and handbook annually? If Yes, what are the activities /information included/provided to students through these documents? Is there a provision for online access?

The College publishes its updated prospectus annually which provides comprehensive information about various courses, eligibility criteria and curriculum. The prospectus is made available at a minimal price to students at the beginning of the session.

The prospectus contains information about –

- The profile of the College
- Message from the Principal's desk
- Vision and mission of the Institution
- Programmes offered
- Admission process
- Eligibility criteria (category wise)
- Details of infrastructure and other facilities.
- All information related to academics, hostel life, fee structured , scholarships etc.
- Organization structure and Faculty profiles
- Rules and regulations of the College
- Examination Pattern and Evaluation system.
- Student support services
- Recent activities are included in the section, College at a Glance

There is a provision for online access to this information. The college displays this information on its official website www.govtsciencecollegedurg.ac.in

5.1.5 Specify the type and number of scholarship/freeships given to students (UG/PG/M.Phil/Ph.D./Diploma? others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

- Institution provides various Govt. Scholarships and fellowships besides sponsored cash awards and scholarships for meritorious students.
- Fee waiver for economically weak students belonging to Below Poverty Line (BPL) on admission is ensured.
- Financial assistance in the form of yearly stipends is provided every year to needy and meritorious students.
- Stipends are met from funds provided by state government.
- Scholarships and fellowships routed through the College include:

- i. Govt. of India
- ii. Govt. of Chhattisgarh
- iii. UGC.

TABLE: DEPICTING NUMBER OF STUDENTS RECEIVING SC/ST/OBC/ BPL SCHOLARSHIPS AND VARIOUS FELLOWSHIPS OVER THE LAST 5 YEARS

YEAR	UG	PG	DIPLOMA	BELOW POVERTY LINE (BPL)			OTHERS NGO/ Alumni	Ph.D
				UG	PG	DIPL OMA		
2015-2016	1314	357	59	324	62	07		03
2014-2015	1283	356	61	206	37	13	07 (Rs 31,80,000)	02
2013- 2014	912	310	46	224	76	14		01
2012-2013	619	227	41	173	64	05		01
2011-2012	438	98	33	40	31	01		02

The financial assistance was available on time.

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies (eg, Kishore Vaigyanik Protsahan Yojana (KYPY), SN Bose Fellow etc.)

49.07% of students receive scholarship as financial assistance from the Central/ State government and other national agencies. These include SC/ST/OBC and BPL students. Students in the institution are also receiving UGC fellowships such as CSIR fellowship, UGC –JRF fellowship, Rajiv Gandhi National fellowship for SC/ST students, Maulana Azad National Fellowship for students from the minority communities, Indira Gandhi Single Girl Child Scholarships etc. Students have also been awarded the DST Inspire fellowship, DST Women Scientist Award, Young Scientist award in recent years.

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

At present the college has no overseas students and therefore no such Student's Cell exists in the college.

5.1.8 What types of support services are available for

- (a) **Overseas students** – Not available
- (b) **Physically challenged/differently abled students** –
- Ramps available for easy accessibility
 - Wheel chairs available for mobility
 - During the time of examination they are provided comfortable seating arrangements as per their special needs.
 - Extra time and writer is provided to visually challenged and disabled students during exams in order to ensure equality of opportunity.
 - Library has specially designed furniture for these specially abled students and books in BRAILLE are available for the visually challenged students.
 - Sensitive and cooperative faculty and staff to look into their special needs and requirements.
- (c) **SC/ST/OBC and economically weaker section :**
- 33% seats are reserved for SC/ST students.
 - Govt. and Non Govt. scholarships available for them.
 - *Jann Unnayan*, an NGO formed by Professors of the College wherein almost every faculty member's contribution provides financial assistance to students from weaker sections of the society.
 - Students belonging to these sections are provided help for competitive exams and remedial classes are held for the support.
 - SC/ST students avail the Book Bank facility in the Library. This ensures access to good books and helps them prepare for competitive exams without burdening them financially.
 - Grievance Redressal Cell is in place to look into their specific complaints immediately with sensitivity.
- (d) **Conference in India and Abroad**
- Students from the College are provided necessary assistance such as waiving off the registration fees for students and research scholars to facilitate participation in workshops and conferences organized by the college.
 - Railway fares/conveyance allowance is also provided for attending such meets at central and state levels.
- (e) **Medical assistance to students : Health Centre, Health Insurance etc**
- A General Insurance Policy is available for students where Rs. 11 as premium for insurance is collected from each student. VAT charges are paid by the Government.
 - A Health Centre has been established in the College where First Aid facilities are available for the students.

- Visits and Check Ups twice by Doctors are planned and ensured throughout the session
- Donations for medical health crises are arranged by administration, faculty and students as and when required.
- Awareness drives conducted by the Institution, Student Unions, Alumni, NCC , NSS and Youth Red Cross on health issues such as Blood donation, Dental health, Cancers, First Aid etc. to increase awareness amongst the youth.
- World Mental Health Day celebrated by the Guidance and Counseling Cell to highlight the relevance of mental disorders amongst youth. Invited lectures by psychiatrists organized for students.
- Health programmes specifically targeting girls in the college are also being organized.

(f) Skill development (Spoken English, computer literacy etc)

- A Skill Development Scheme Committee has been formed that specifically looks into this issue.
- The Institution ensures various soft skill development measures via Language lab where programmes to improve spoken and written language are undertaken, training is provided through various softwares available in the lab and it is open to all students across the college.
- The Commerce lab is engaged in helping students understand and gain confidence in financial transactions made in Banks, Post offices and other sectors.
- The Computer lab has been helping students gain computer literacy, special training programmes are being run to make students technology friendly.
- Invited lectures and Training programmes on the relevance of Entrepreneurship & Self Help Groups have also been conducted. Padmshree awardee Mrs. Shamshad Begum motivated the students by her lecture.
- Apart from these, workshops on Skill Development are being organized by departments as and when required. The Department of History conducted a workshop on “*Replica making of ancient figurines*” while the Department of Computer Science conducted a training session on entrepreneurial opportunities in “*Ethical Hacking*”.
- English department since last 4 years has been organizing intensive programmes on enhancing Communication Skills at the national, state and at the college level for the faculty as well as the students.

(g) Performance enhancement for slow learners/ students who are at risk of failure and dropouts.

- Personal Guidance and Motivation is provided by faculty members to ensure retention of such students.
- Remedial and Extra classes conducted by each department as per requirement for identified slow learners.

(h) Exposure of students to other institution of higher learning/corporate business house, etc.

The Institution is consistently engaged in providing students access to other institutes of Higher Learning and Industrial Workplaces. Departments in accordance with their needs and as per their subjects have been organizing industrial visits and field trips to help students understand the work places better. Visits to Korba Industrial Plant, Jindal Industrial Plant, ABIS Milk Factory, Sanchi Milk Factory, Glucose Factory, Forensic Labs were taken by the Department of Chemistry in the last few years, Similarly, the Department of Geology visited Gerva and Kusmunda Coal Mines. Other Departments have also been visiting Food Plants, Bhilai Steel Plant, Water Purification Plants, Fish Farms, Irrigation Dams and so on in accordance with their subjects.

Visits and interactions with experts at Indian Institute of Science Bangalore, IIT Kharagpur and IIT Mumbai have also been undertaken by Departments of Physics and Biotechnology.

A Committee on “Industrial - Academia Collaboration” has been formed. The Committee organizes invited lectures by eminent persons from corporate & non corporate world and premier research institutes to improve the knowledge of students on recent technologies.

Students are also encouraged to participate in workshops, seminars & conferences organized by other institutions to improve their knowledge by interacting with other students and faculty of other institutions.

(i) Publication of student Magazine:

- The College publishes its annual magazine “*Vyanjana*” under the supervision of the College Editorial Board. The College Magazine and Newsletter Committee as well as the Literary committees are involved in seeking articles, painting, poetry and other such contributions from students.

- A Newsletter is being published by the Institution where in all activities conducted by the college and achievements of the students are compiled and highlighted.
- Department of Mathematics has their own in- house magazine “*Ganit Suman*” to which students contribute reviews and articles.
- Students maintain their Notice Boards and Wall Magazine “*Abhivyakti*”. Individual department also encourage and involve students in maintaining wall magazines where they have creative liberty to write articles, short stories and poetry.

5.1.9 Does the College provide guidance/ coaching classes for civil services/ Defense Services/NET/SLET and any other competitive examinations? If yes, what is the outcome?

- Department of Biotechnology, Mathematics and History provide coaching for students of their departments. They are actively engaged in selecting, filtering & preparing capable students for competitive exam.
- The Placement Cell is actively engaged in organizing Inspirational lectures by experts. It aims at guiding students towards cracking Civil Service exams. The Cell has been organizing lectures by professionals from various coaching institutes to help students understand the requirements of these exams. The Cell also attempts at encouraging students by providing them opportunities to interact with young probation officers, senior civil servants, Defense Officers etc. who have already cracked the exams.
- Jann Unnayan, an NGO formed by professors of the college, selects and organizes coaching classes for students belonging to weaker socio-economic backgrounds for competitive exams.
- Well equipped Central Library with newspapers and magazines for preparation of competitive exams.
- e-Learning facilities for competitive examinations have been extended to students. The computer section in the Library caters to this need.

The outcome has been favourable as students from various departments have gradually started developing a competitive spirit and are qualifying various exams i.e. Civil Services, NET/SLET, Defence Services and other competitive exams.

5.1.10 Mention the policies of the college for enhancing student participation in sports and extracurricular activities through strategies such as

- The Institution encourages and motivates students to participate in various extracurricular and sporting activities. Sports and Cultural

Committees are formed to conduct sports and cultural activities. They supervise various activities and provide necessary facilities and allocate adequate funds for these activities as per requirements.

- Department of Sports is headed by a Sports Officer who constructively engages students in various sports. The attempt is at fostering maximum participation by students to ensure their all round development.
- Cultural Committees are headed by staff members who themselves are well versed with dance and music forms so as to draw the best performances out of students.
- Students are also provided interactions with trained artists in various fields and musical bands to help them better their art.

a) Additional academic help provided as per their requirements for participation in various sports at the district/university/state/national and international level such as:

- Rescheduling of Internal Assessment exams if required.
- Attendance relaxation during the events.
- Special classes & practicals to enable them to cope up with their studies.
- Weightage in admission to Undergraduate and Post graduate courses given to students excelling in sports at the State/National and International level

b) Special dietary requirements, sports Uniform and materials, any other provided by College.

- The institution provides the above facilities for students participating in various sports.
- During tournaments conducted by the college and Annual Sports Day celebrations, health drinks and supplements are provided to students.
- Sport Uniforms, Blazers and Sporting kits are made available for students as per their need.
- Additional coaching facilities for students excelling in their sport.
- Extra time provided for practicing in the morning and evening to such outstanding sports person.
- Travel expenses are provided for students representing the University at Zonal, State and National levels.
- Awards/Medals/Shields/Cash Prizes given to students winning laurels in their sport.
- Scholarships available for outstanding representation in sports by students.

- Weightage provided to students in admission to Undergraduate and Post graduate courses for students who have excelled at state and national level sporting competitions.
- A Gymnasium, an Indoor Stadium, Badminton Court, Tennis Court and 3 Play Grounds available for students facilitating a culture of sports within the campus.

5.1.11 -Does the college have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interviews, and develop entrepreneurship skills?

- The College has an institutionalized mechanism for placement of its students.
- The Institution ensures right guidance for students at the very time of their admission. Help desks are set up to guide students and the specific admission committees ensure they opt for the appropriate discipline in accordance with their desires and abilities.
- Faculty members at the Department level are also engaged in career counseling and organize lectures by experts for career choices in their opted subjects. Such lectures on career guidance were conducted by departments in the last few years.
- Final year under graduate students are specifically guided towards making appropriate career choices. Efforts are made to reach out to students by counseling them both at personal and professional levels.
- A Committee on “**Industry - Academia collaboration**” has been established which organizes interactive sessions amongst students and representatives of industrial bodies.
- **Training and Placement Cell** has been established and monitors activities related to job notifications and opportunities, Interview preparation, development of entrepreneurial skills, organizing of campus Interviews besides ensuring maximum participation in campus recruitments and interviews.
- Holistic development that integrally involves Soft Skill Development has been a focal area of the College. A **Skill Development Scheme Committee** looks into issues pertaining to skill enhancement. The institute has consistently been addressing interview skills like improvement of Spoken English language, Communication and Expression Skills, Conversational Skills, Presentation Skills, Group Discussion and so on. Departments at an individual level are actively engaged in the process along with the Department of English that runs the Language lab under which training and workshops for attaining the above skills are held.

- Department of Computer Science is also involved in conducting training sessions and workshops to help students adapt and be confident about the technological requirements of our times.
- A number of Personality Enhancement Workshops have been conducted to groom students and to help them learn etiquettes so as to leave an impressive impact on an interview board.
- Training for Mock Interviews and Resume writing provided.
- Invited lectures by experts are conducted aimed at guiding students towards cracking various exams. The Placement Cell has been organizing lectures by professionals from various Coaching institutes to help students understand the requirements of these exams. The Cell also arranges interactive sessions with selected candidates so as to motivate students in the right direction.
- A 3-day workshop titled “*Trividha – bhavishya ki ore*” to motivate students towards developing entrepreneurial skills was organized.
- Workshops on “*Ethical Hacking*” was conducted by the Department of Computer Science and “*Solar Training Programme*” organized jointly by the Department of Chemistry and Biotechnology for creating awareness amongst students on the scope of new job opportunities in this technological era.
- The Department of History organized a workshop on “*Replica making of ancient figurines*” aimed at exploring job opportunities through traditional art works.
- NSS organized a 5 day workshop for students titled “*National Youth Development Entrepreneurial Training Programme*” in this direction.
- Students are also encouraged to pursue various courses to develop their skills and talents in fields that can financially support and benefit them.

5.1.12- Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

The Institute has an active Placement Cell engaged in monitoring campus recruitment, training and placement requirements. Various Campus recruitment programs were organized to provide employment opportunities for the students in the last few years. Students have also actively participated in campus recruitment drives undertaken by other institutes

TABLE PROVIDING DETAILS OF CAMPUS RECRUITMENTS IN THE LAST 5 YEARS

YEAR	FIRM/ EMPLOYER	NO.OF PLACE MENTS
08.04.2016	Accenture	03
04.02.2016	TCS (BPS)	02
20.01.2016	Larsen and Toubro (L&T)	01
18.12.2015	LCT construction company	08
29.09.2015	multinational company	03
22.07.2015	ICICI Bank	05
19.07.2015	Clean flow India Pvt.Ltd. New Delhi	04
22.04.2015	TCS	02
11.04.2015	IOT Infrastructure and Energy services Ltd.	01
24.03.2015	Indian Oil Corporation	00
12.01.2015	Wipro software company	02
08.12.2014	Wipro	03
28.11.2014	TCS (SAP)	01
26.11.2014	Wipro : WASE and WISTA	11 (for second phase)
24.11.2014	TCS Company	01
09.10.2014	Tech- Mahindra Group	09
07.10.2014	TCS KPO	02
12.08.2014	Cognizant Technology Solutions	04
10.08.2014	HDFC Bank	07
02.08.2014	Sarda Energy and Minerals	08

	Ltd.	
22.04.2014	TCS	01
21.04.2014	HDFC	04
04.03.2014	Wipro	11 (for final interview)
24.12.2013	Apex Lab Pvt.Ltd.	04 (for final interview of which to 02 were selected)
20.11.2012	ACC Ltd.	03

National institute of Banking and Finance in collaboration with HDFC Bank is set to organize a Training and skill development camp with prime focus on the theme *Education to Employability and Employability Quotient in the near future.*

5.1.12 Does the College have a registered Alumni association? If yes, what are its activities and contributions for the development of the College?

- The College has a registered Alumni association.
- The Association is integrally involved and contributes to the overall development of the college.
- The Association comprises well qualified members who are involved in organizing lectures, grants, sponsoring scholarships and financial assistance to needy students. They are engaged in organizing programs to inspire and motivate students.
- Alumni are also involved in providing funds for infrastructural development and improving learning resources.
- They participate in curriculum development and faculty enrichment programs
- Awareness campaigns and health check up drives have also been conducted by them.
- They are also associated with the Annual Cultural Day celebrations of the college.
- They provide their precious feedback on infrastructure improvement and activities carried out by the institution.
- Memorial prizes such as *Asha Sharma* Scholarship and *N.K.Pathak* and *Ashok Sharma* cash prizes are being awarded by the alumni members to meritorious students and to inspire others to follow suit.

5.1.14 -Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

- The College has a Grievance Redressal Cell to deal with the concerns of all the stakeholders, including staff, students and parents. The committee comprises a Convener and 3 senior staff members who are involved in addressing complaints. The Committee works in close association with the Principal of the college.
- The committee has been formed to look into the nature of the complaints, their causes, their occurrence, effectiveness of the remedies to the student's complaints and suggest policy change when and where needed to avoid such future grievances.
- A Complaint/Suggestion box is placed in front of Principal's chamber. complaints are collected every month, analyzed by Principal with the help of senior faculty and resolved by Grievance Redressal Cell. The committee judiciously and promptly has dealt with the related complaints in the last few years. So far there has not been any such case reported regarding ragging and harassment.

5.1.15 Does the college have a Cell and mechanism to resolve issues of sexual harassment?

- The Institute has an active Committee on Atrocities against Women as well as a Women Cell that works in close coordination to look into the concerns of the women staff and students. The Committee ensure upholding the *Vishakha Guidelines* within the college premises. Gender sensitization and empowerment of students are other primary issues dealt with by the committee.
- The Committee addresses the complaints made to it while ensuring anonymity, comfort and dignity of the complainant.
- Apart from its main task at redressals the committee attempts at maintaining a healthy female friendly environment within the college campus. An effort in this direction has been the establishment of a Girls Common Room for the comfort of the girl students.
- The committee also organizes awareness lectures for students on relevant issues such as "*Beti Bachao- Beti Parhao*", Cyber Crimes and their Prevention, Legal Literacy and Rights of Women, Health lectures on Cancer and First Aid, Women Empowerment etc.
- The College ensures such lectures are delivered by Inspirational Women achievers as Padma awardee social worker, Collector, Additional Superintendent of Police, and Civil Judges so as to motivate the girl students of the college.
- No sexual harassment complaint has been made to the Cell till date.

5.1.16 Is there an anti –ragging committee? How many instances (if any) have been reported during the last four and what action has been taken on these?

- The College has established an Anti – Ragging cell and a Discipline committee that deals with such kind of complaints within the college campus.
- The Anti - Ragging guidelines are strictly on display across notice boards in the campus and students are clearly forbidden from indulging in the unhealthy practice. The prospectus provided to students also finds an advisory on anti ragging issues and strict adherence to the disciplined environment of the college.
- Hostel Superintendents and Warden - in charge also take personal interest in ensuring a healthy campus environment in the hostel and they work in close association with the Principal to report any such untoward incident.
- Head of Departments and faculty members also guide students against such activities during Induction programmes conducted by their departments.
- No case of ragging has been reported in the last 4 years.

5.1.17 How does the college elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co curricular activities, research, community orientation etc.?

- The college works in close coordination with all its stakeholders, the administration, staff, students, parents, alumni and civil society for ensuring overall development of the students.
- **Administration:** The administration headed by the Principal oversees all welfare activities for the students. Various committees have been formed to encourage student activities: for instance a film society has been formed in the college called “*Chhayapat*” that displays International award winning cinema for students to widen their perspectives on social issues. Environment Committee ensures participation and spreading awareness towards Environment amongst students, while the Magazine and Newsletter Committees encourages participation of students in literary activities.
- Sports and Cultural activities are an imperative aspect of holistic development. Department of Sports and Cultural Committees conduct all activities related to these fields. Annually, they conduct various events where students are motivated to participate. Apart from inspiring camaraderie amongst participants the attempt is at drawing maximum participation by students.

- Participation in NCC, NSS and Youth Red Cross is encouraged by the College. In charge faculty members engage students in various community oriented programmes through these bodies such as blood donation and health check up camps etc.
- **Staff:** Faculty member's prime focus in recent years has been on developing a textbook reading culture where students opt for reference books rather than below standard notes and guides easily available to them in the markets at cheap prices. The purpose here is to ensure conceptual and comprehensive knowledge and to motivate students to develop their cognitive and creative skills rather than rote memorizing of books.
- Faculty members constructively contribute towards curriculum development at the Post Graduate level. They ensure up gradation of syllabus as per students and times requirements. Irrespective of chosen subjects students have free access to all the departments to seek knowledge and help as and when required.
- The Departments and faculty members act as mentors and guide students beyond academic activities by engaging them in various activities such as poster competitions, extension activities, study tours, projects, assignments, presentations etc. They also encourage development of various soft skills necessary for all round development.
- Departments also organize invited lectures, seminars, workshops and conferences, training programmes, interdisciplinary activities besides various in- house activities to ensure all round development of students and provide sufficient exposure to students with the latest developments in research.
- Faculty members engaged as research guides are attempting at grooming students to develop out of box thinking methods that may contribute to society at large. They motivate students and research scholars to introduce novelty in their research projects and assignments and to ensure quality publications.
- Students are also motivated to enthusiastically participate in community outreach endeavours such as social awareness campaigns, street plays and adoption of villages. The College has adopted "Thanoud" village in the year 2016. The village Sarpanch is an Alumni of the College and in association with him various measures such as cleanliness drives, blood donation camp and plantation drives have been undertaken. The Department of Physics, Chemistry, Biotechnology, Mathematics, Zoology, Botany conducted awareness drives in government schools. Various departments invited students from such schools to avail benefits of upgraded labs at the college. The purpose of such activities is to inculcate a sense of responsibility and social obligation amongst students.

- A well enriched library also contributes towards this cause. Students are encouraged to develop a culture of reading text books and reference books. They also avail the benefits of the reading room and ICT facilities. Availability of comprehensive material on general studies and other e-Learning material also helps them mature their perceptions.
- **Students:** A Student Union is elected every year by students from amongst themselves. This elected body represents students at all forums and in various administrative committees. The primary objective of the Union is to look into the concerns of students and cater to their needs and welfare. Besides association with various campaigns and health drives the union works to motivate students to actively engage in various activities.
- **Parents and Alumni:** Parents and alumni play a major role in ensuring holistic development of students. Various activities undertaken by the Alumni for student welfare and feedbacks provided by them help the institution improve and ensure better deliverance of services for students.
- **Civil Society:** The institution works in close association with civil society to help the students grow. The students are engaged in various outreach activities through NSS, NCC, YRC and various extension programmes conducted by departments including cleanliness drive, adoption of village for social works, sickle cell anemia awareness camps etc.

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc.?

- The institution ensures preparations of Academic Calendars for curricular, co curricular, sports and cultural activities ahead of the session. As per the tentative dates in the calendars students are aware of the activities planned for the session and can plan their schedules in accordance.
- Departments and Faculty members facilitate participation in sporting and cultural activities by providing all possible academic help to students during such engagements.
- Relaxation in attendance and rescheduling of internal assessment exams, besides remedial classes and extra help are also provided to students participating in sports and cultural activities at University/State/National/International competitions as per needs.

- The Institution ensures weightage for students who have excelled in State, National and International level tournaments during admissions to UG and PG courses
- Facilities like Sport kits, Uniforms and travelling allowance are provided to students to facilitate their participation in such events.
- Financial help is provided to students from weaker socio-economic backgrounds to participate in such events and to ensure monetary aspects do not act as hindrance to their abilities.
- Cash Prizes are awarded to students winning laurels on University/State/National and International platforms to motivate them to enhance their performances and to inspire other student's to follow suit.
- A Gymnasium, an Indoor Stadium, Badminton Court, a Tennis Court and 3 Play Grounds are available within the campus for students .The grounds are open to all students and other members of society to ensure development of a sporting culture and healthy lifestyle for all.
- College organizes various sport tournaments, annual sports day celebrations besides cultural activities like dramas, dances, folkdances, singing competitions, Annual Cultural Day celebrations and participation in Youth Festivals at state and national levels etc to engage students to participate in them. The attempt is to maximize participation in such events.

5.1.19 How does the college ensure participation of women in 'intra' and 'inter' institutional sports competitions and cultural activities? Provide details of sports and cultural activities in which such efforts were made?

- The college administration and faculty members are consistently engaged in motivating the girl students to step out of their comfort zones and participate in various activities at 'intra' and 'inter' institutional level sports and cultural competitions.
- The institution is proud of its girl students who are already participating in large numbers across events. These students are enthusiastic participants at par if not more than boys. They have been winning laurels for the college at various sporting and cultural events both in - house as well as beyond.
- The institution conducts variety of competitions specifically for the girl students at the Annual Sports Day such as 100 m races, Discus Throw, Long Jumps etc. to encourage participation. Similarly the Annual Cultural Day celebrations also witness a number of musical and dance competitions that specially are aimed at enhancing women participation.

- In the year 2014-2015, Tanushri Sengupta, a girl student of the college represented the University at the Inter University (Zonal) competition in *Rangoli*. She also represented the University in Drama in the year 2013-2014
- The last few years have witnessed many Women student achievers in the field of Sports .They are as follows:

TABLE: DETAILS OF REPRESENTATION OF GIRL STUDENTS IN VARIOUS SPORT COMPETITIONS IN THE YEAR 2015-2016

S. no.	Name of the Student	Class	Level	Name of the Sport
1.	Ku. Kajal Singh	B.Sc.I	State	Basketball (Women)
2.	Ku. Neha	M.A.II Sem.	State	Basketball (Women)
3.	Ku. Rinki	BCA III Sem.	Inter University	Cricket (Women)
4.	Ku. Bhuneshwari	B.Sc. I	Inter University	Taekwando (Women)
5.	Ku. Reshma Thakur	B.A. II	Inter University	Volley Ball (Women)
6.	Ku. Aarti	B.Sc. II	All India University	Cross Country
7.	Ku. Jyoti Rani Sahu	B.A. II	All India University	Judo (Women)
8.	Ku. Lata	B.Com II	All India University	Judo (Women)
9.	Ku. Devki Dewangan	B.A. II	All India University	Judo (Women)

5.2 Student Progression

5.2.1 Provide details of programme wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges/ universities.

Table: Providing details of the programme wise success rate of the College

YEAR	UG Pass Percentage				PG Pass Percentage			B.Lib/ I.Sc.	PGDCA	M.Lib. &I.Sc.
	B.A.	B.Com	B.Sc.	BCA	M.A.	M.Com	M.Sc.			
2014-2015	61.08	67.19	63.98	52.73	93.85	88.88	93.20	82.35	89.93	100
2013-2014	78.02	79.71	71.60	58.59	100	92.30	94.47	95.74	78.5	80
2012-2013	75.68	69.75	70.29	64.80	97.27	92.10	95.03	69.69	87.74	-
2011-2012	66.89	72.54	72.73	58	97.84	91.66	98.58	-	96.0	-

5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches). Highlight the observed trends.

Table: providing percentage of students progressing to higher education or employment

Year	UG to PG	PG to M.Phil (M.Phil. Course not offered)	PG to Ph.D.	Employed via Campus selection	Other than campus recruitment
2014-2015	17.33	-	6	87 students	50 -60% approx.
2013-2014	20.41	-	4	04 students	52-56% approx.
2012-2013	20.86	-	3	03 students	51-53% approx.
2011-2012	19.11	-	3		46-48% approx.

The Observed trends from the above table are:

- The Students progressing from Undergraduate level to Post graduate level has been around 20%
- Since the college does not offer M.Phil course the progression to them has been recorded nil for the college.
- The progression rate from PG courses to Ph.D. has been less almost in the range of 3 to 6 % but the strength is gradually increasing depicting a positive trend towards research amongst students. It needs to be pointed that limitation of intake capacity of research guides is also a major reason for this slow progression rate.
- The Campus selections have shown a massive improvement in the year 2014-15 with 87 students selected either for the next stage or final selection.

5.2.3 What is the Programme wise completion rate/ dropout rate within the time span as stipulated by the College/ University?

Table: Program wise Completion rate

PROGRAMMES BEING OFFERED (Percentage Completion)										
YEAR	B.A.	B.Com	B.Sc.	B.C.A.	M.A.	M.Com	M.Sc.	B.Lib. & I.Sc.	PGDCA	M.Lib. & I.Sc.
2014-2015	54.2	68.1	55.3	82.3	93.8	88.8	93.2	47.1	89.9	100
2013-2014	72.1	76.8	61.7	52.5	100	92.3	94.4	95.7	78.3	80
2012-2013	54.8	45.4	48.8	26.6	97.2	92.1	95.0	69.6	87.7	-
2011-2012	34.0	51.7	49.6	24.0	97.8	91.6	98.5	-	96.29	-

Drop out

- UG classes - Average 2-3 % due to failer
- PG Classes – Very rare

5.2.4 What is the number and percentage of students who appeared /qualified in examinations like UGC-CSIR-NET/UGC-NET/SLET/ GATE/ CAT/ GRE/ TOFEL/ GMAT/ Central/State services, Defense, Civil Services, etc.

- Students have been qualifying various exams, details of which are given in the following table.

TABLE PROVIDING DETAILS OF THE STUDENTS WHO HAVE TQUALIFIED VARIOUS EXAMINATIONS IN THE LAST 5 YEARS

year	UGC-CSIR-NET	UGC-NET	SLET	GATE	UPSC	State services	Defense	Civil services	Others (BCIL)
2011-2016	18	11	06	15	03	08	01	-----	10

5.2.5 Provide details regarding the number of Ph.D./D.Sc./ D.Litt. thesis submitted, accepted, resubmitted and rejected in the last four years.

- Research Scholars have been involved in pursuing their degrees from the college which is a prominent research centre for 14 subjects. Details are provided in the table underneath.

TABLE: PROVIDING DETAILS OF THE RESEARCH SCHOLARS PURSING Ph.D. DEGREE IN THE LAST 5 YEARS

year	Ph.D.				
	Thesis Registered	Submitted	Accepted/ Awarded	Resubmitted	Rejected
2011-2016	115	11	78	01	Nil

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

- The College offers a wide range of sports and games, cultural and extracurricular activities for students.
- **Sports:** Students are provided opportunities to participate in various games and sports such as races, marathons, cross country races, table tennis, chess, kabaddi, volleyball, basket ball, boxing, swimming, cricket, archery, Badminton, football, basket ball, badminton, Net ball, Kho kho, wrestling, soft ball, judo, handball, hockey, weight lifting, taekwondo etc.
- Table depicting participation by students at various levels provided underneath:

Table : Details of student participation in various sport competitions across different levels during the last 5 years

Year	Inter College	Inter University	State Level	All India	International
2015-2016	230	09	27	14	-----
2014-2015	244	28	30	13	01
2013-2014	205	27	27	---	-----
2012-2013	199	28	44	---	-----
2011-2012	213	19	27	----	-----

- Ranjeet Patel, a student from the College participated and represented the Country in Half Marathon at the World University Competition held in Turkey in the year 2014-2015
- The College has also been chosen by the University as an organizer of different sports events in the last few years. Being the Lead College of the district the State Government assigns the college the responsibility of delegating various sporting events to other colleges in the district.

Table: Program Calendar of Sporting Events conducted by the College in the last 5 years

Year	Level	Sports	Male/Female
2015-2016	State	Football	Male
	Inter College	Tennis	Male, Female
2014-2015	Sector	Badminton	Male, Female
2013-2014	Sector	Hand ball	Male
2012-2013	State	Cricket	Male
2011-2012	Sector	Basket ball	Female

- The College also organized a Training Camp in the year 2014 -2015 for Kabaddi (Male) players to prepare them for the state level competition. Besides organizing these competitions the college celebrates its Annual Sports Day in each session on a large scale. The event witnesses various games like the 100m Race, 200 m Race, 400 m Race, Discuss Throw, Long and High Jump etc. Students enthusiastically participate in these games and make the day a grand success.
- **Cultural Activities:** Besides Sports, the College also channelizes its efforts towards engaging students in various cultural activities. Each year the College and students engage in several cultural activities such as :
 - Welcome party for newly inducted students
 - Farewell ceremony by the students
 - *Yuva Diwas* celebrations to honour Swami Vivekanand's birthday
 - Annual Cultural Day Celebrations. Students enthusiastically participate in various competitions held during the festivities. Apart from song and dance competitions the event witnesses other extracurricular activities such as *rangoli*, poster, *mehndi*, flower decoration, salad decoration, cooking competition etc.
 - The college also participates in the Youth Festival organized at the University level and inter-university level. Students participate in large numbers in the literary and cultural competitions organized in the college and the best amongst them are chosen to represent the college at the university, state and national level events.
 - Students also have been participating in the Rajyotsava and drama competition organized by IPTA.

TABLE: STUDENT PARTICIPATION IN VARIOUS CO-CURRICULAR AND CULTURAL ACTIVITIES

YEAR	NAME OF THE STUDENT	LEVEL	COMPETITION
2015	Tanushree Sengupta	Zonal level	Rangoli
2014	Tanushree Sengupta	Zonal level	Drama

- **Extra Curricular Activities:** The Institute is constructively engaged in involving students with extracurricular activities such as NCC, NSS and Youth Red Cross. The NCC and NSS units have both a Boys and Girls wing.
 - **NCC:** Over the years, opting for NCC has become a popular choice for students. Aimed at making youth confident and competent, NCC activities involve participation in various camps, social service drives

and adventure trainings. Students in the last 4 years participated in the following camps:

- Republic Day Parade Camp (RDC), Delhi,
- Thal Sainik Camp(TSC), Delhi
- Basic /Advanced Leadership Camp
- National Integration Camp
- National Games ,Delhi
- Parasailing Camp
- G.V. Mavalankar Shooting Championship, Delhi
- Basic/Advanced Mountaineering Camp
- Annual Training Camp (ATC)
- Army Attachment Camp
- Rock Climbing Camp (RCC)
- Personality Development Camp (PDC)
- International Youth Exchange Programme

Apart from regular parades and camps, cadets also participated in various **social service** activities such as:

- Blood donation camp
- NCC Day celebrations
- Adventure Trekking
- AIDS awareness rally
- Pulse Polio Campaign
- Voters awareness campaign
- Road Safety Week in association with Regional Traffic Office(RTO)
- As volunteers in the Traffic Control Programme
- Tree Plantation drives
- Disaster Management Programme
- Social awareness rally
- Fund collections for communal harmony
- SSB Workshops

The college unit also organized mini treks and cycle expeditions to develop team spirit and confidence among the cadets. These activities were conducted besides the adventure activities organized by the NCC battalion,

TABLE: HIGHLIGHTS OF ACHIEVEMENTS OF NCC CADETS IN THE
LAST 5 YEARS

S.NO.	RANK	NAME OF THE CADET	YEAR	EVENT
1.	SUO	Ratnaker uppadhya	2015	Rdc,new delhi and pm rally
2.	SUO	Roshan triloknath yadav	2014	Thal sainik camp,new delhi
3.	SGT	Mithelesh kumar sahu	2014	Ncc national games ,new delhi (kabaddi)
4.	SUO	Ku.nisha	2014	Rdc, new delhi and pm rally
5.	SUO	Dinesh kumar dhurwa	2014	Rdc, new delhi and pm rally
6.	SUO	AFIZ	2014	RDC,NEW DELHI AND PM RALLY
7.	SUO	SHIVA SAHU	2011	THAL SAINIK CAMP, NEW DELHI
8.	SUO	KU.MONICA CHANDRAKER	2011	RDC,NEW DELHI
9.	SUO	KU. SHWETA RAJPUT	2011	RDC,NEW DELHI AND GUARD OF HONOUR, PM RALLY

- **NSS:** The College has witnessed enthusiastic participation in NSS activities over the years. NSS volunteers of our college have actively been participating in various activities held to inculcate community service amongst them. Student participation in various activities conducted in the last 4 years are as follows:
 - Consumer awareness lectures
 - Training programmes on disaster management
 - Electorate awareness programmes
 - Blood Donation awareness campaigns
 - Tree plantation drives
 - Awareness programmes on drug-abuse, AIDS, population control, education and other projects
 - Independence Day and Swachh Bharat Abhiyan to mark Gandhi Jayanti celebrations.
 - Rally to mark AIDS awareness day
 - Yoga awareness camps
 - World Population Day Rally
 - Participation in District Cycle Rally
 - Rally to highlight the relevance of washing hands
 - *“Bharat Jago Daud”* organized to mark the birth celebrations of Swami Vivekanand on the eve of Yuva Diwas.

- Annual Camp of NSS organized at Khapri Siloda and village Khamaria. Many programmes were organized there like health camps, cultural activities, awareness rally, quiz competitions, literary activities etc.
- Camp for sickle cell and blood group test and counseling were organized in villages in collaboration with the Department of Biotechnology
- Free dental check-up camp for students and villagers in collaboration with Maitri Dental College, Anjora undertaken.
- Motivational and stress management lectures with focus on Yoga undertaken
- Swachhata Abhiyan and Survey work at Anganbadi and in village houses.
- Save Girl Child lectures conducted
- Lectures on Relevance of food nutrition and anemia
- Cultural activities like street plays, dance, drama and songs were performed by students at the village chaupal and schools to increase awareness about social and environmental issues.
- Essay, debate, painting, quiz, puzzles, photo exhibitions and rangoli competitions held for students.
- State Camp of NSS attended by three volunteers from the college NSS wing.
-

Youth Red Cross: The Youth Red Cross is another popular extracurricular activity students engage in. Students have been engaging in various activities to motivate and inspire the youth to increase their participation in social activities. Underneath are mentioned few of the actively participated events of the last few years:

- Sickle Cell awareness camps and tests organized in association with volunteers from the NSS
- Participation in World AIDS Day Rally on the 1st of December
- Volunteers participated in the Red Ribbon Express Rally
- Workshop on relevance of Blood Donation
- Health and Nutrition camp at Kodiya village
- Lectures on Health and Nutrition organized for students.
- Camp on “*Blood identification and donation- A noble cause*” organized in association with NSS, Red Cross Society, Durg and HDFC Bank, Durg
- Extension activities undertaken
- Plantation drives undertaken

- Volunteer's awareness campaign and rallies taken out
- Seminar on 'Health and awareness' arranged for students.
- Disaster management and First Aid demonstrations by Youth Red Cross volunteers
- Lectures on General Health, Save the Girl Child, Food, Nutrition and Anaemia, Traffic Rules and Road hazards organized for students.
- Visits to Old Age Home situated at Pulgaon Durg undertaken in the year 2016
- Sushil Asati, a student of YRC was awarded "Nipun Badge Rover" State (Rajyapal Award)
- The College also has formed a film society called "*Chhayapat*" for students, it displays International award winning cinema for students to widen their perspectives on social issues.

5.3.2 Provide details of the previous four years regarding the achievements of students in co curricular, extracurricular activities and cultural activities at different levels: University/ State/Zonal/National/ International etc.

Students in the Institution are provided opportunities to participate in various co-curricular, extracurricular and cultural activities, details of which are given below:

- **Co Curricular Activities:** The Institution has been involving students in various co-curricular activities that include literary competitions like debates, extempore, elocution, essay writing, group discussions, brainstorming sessions and quiz etc.
- The College organizes Science Day Celebrations. On this day, Science Club organizes model, charts, and poster competitions for students.
- The college has also successfully been organizing an Inter college debate where students from different colleges of the district participate.
- Ku. Sonali Meshram, an M.Com student made the college proud by winning the third prize at the zonal level in the All India Essay writing competition, 2015.
- Students graduating with Mathematics also get opportunities to participate in competitions such as the Madhav Mathematics Examination organized by the National Board of Higher Mathematics and Homi Bhabha Centre for Science. Scholarships are awarded to the winning students by the body.
- Students participate in the Regional Mathematics Olympiad. Pallav Agrawal, a student from the Department of Mathematics won Bronze medal at the International Mathematics Olympics in the year 2013. The Department also organizes workshops for preparation of these exams.

- Students have also been participating and winning prizes at various seminars and conferences. Hitendra Kr. Laudre presented his paper at an International Seminar held in Malaysia in the year 2014 while Vikas Dubey and Swati Pandey, won the first prize in oral presentation at a National seminar and Best poster presentation award at an International seminar in the year 2014.

TABLE DEPICTING PRESTIGIOUS AWARDS AND FELLOWSHIPS WON BY STUDENTS IN THE LAST FEW YEARS

YEAR	NAME OF THE STUDENT	DEPARTMENT	AWARD RECEIVED
2015	Kanchan Uppadhyaya	Chemistry	Chhattisgarh Young Scientist Award
2015	Vikas Dubey	Physics	Chhattisgarh Young Scientist Award
2015	Swati Pandey	Biotechnology	DST Women Scientist Award
2015	<u>Seema Tripath</u>	Biotechnology	DST Women Scientist Award
2014	<u>Gautam Sil Thool</u>	Chemistry	Chhattisgarh Young Scientist Award
2014	Ekta Singh	Biotechnology	Chhattisgarh Young Scientist Award
	Bhavna Jain	Chemistry	UGC Post Doctoral Fellowship

- **Extracurricular activities** :Students in the institution engage in various extracurricular activities such as:
 - **Sports**: Students are provided opportunities to participate in various national and international level games and sports. Participation details are given in the previous table. *Ranjeet Patel*, a student of our College participated and represented the Country in Half Marathon at the World University Competition held in Turkey.
 - **Cultural Activities**: Students also participate in various cultural events such as the *Youth festival* at State and National level and represent the College and University in different competitions. In the year 2014-2015, *Tanushri Sengupta*, a student of the college represented the University at the Inter University (Zonal) competition in *Rangoli*. She also represented the University in Drama in the year 2013-2014.
 - **Extracurricular Activities**: The Institution has active NCC, NSS, Youth Red Cross wings which conduct various programmes for its cadets, volunteers and student participants. Details of student participation have been provided in the previous answer.

5.3.3 How often does the college collect feedback from students for improving the support services? How is the feedback used?

- The College annually collects feedback at the end of each session from its students. A detailed performa that includes feedback regarding the facilities and support services available in the college has been made .It also includes evaluation and grading of the performance of faculty members by students.
- At the Undergraduate level a centralized system of feedback collection is being ensured while Departments pursuing postgraduate courses individually collect feedbacks from their students.
- A committee formed by the Principal scrutinizes and analyses the feedback and in accordance makes suggestions for improvement and remedial measures. Valuable inputs received from students helps in improving the services being provided to them. The committee also advises faculty members to deliver as per obtained feedbacks.

5.3.4 Does the college have a mechanism to seek and use data and feedback from its graduates and employers to improve growth and development of the college?

The college has not been officially collecting any such data but the college is engaged in interactions with employers through the committee on 'Industrial Academia collaboration' and ensures that their opinions are given due considerations. The placement cell works in accordance to groom students as per the requirements of the Industry, employers and the market.

5.3.5 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine and other material? List the major publications/materials brought out by the students during the previous academic session.

- The College Magazine and Newsletter committee as well as the literary committees are involved in motivating and seeking literary contributions from students. The effort is aimed at encouraging them to be creative in their contributions.
- The College publishes its annual magazine "*Vyanjana*", students contribute to the college magazine with their articles, paintings, poetry and short stories.
- Department of Mathematics has their own in- house magazine "*Ganit Suman*" to which students contribute articles. The magazine includes mathematical reviews by post graduate students of the department.

- The College is in process of launching a research journal and is in process of getting an ISSN number. The journal “*Research Expression*” has been launched as an effort to encourage quality publications from students, research scholars and faculty members.
- Individual departments also encourage and involve students in maintaining Wall magazines. Students are free to contribute creative articles, sketches, write ups, poetry and so on for the purpose.
- Students have been actively involved in publishing research papers in association with the faculty members of their departments. 10 such papers have been published in the last 5 years by students of the **institution**. Details of which are cited below:
 - i. Dongre,S.,Thakur,S.,Chauhan,P.,Kishori,Y.,Dubey,M.,Sahu,P., Tamrakar,A., Singh,S., Verma,L., Singh,E., Pandey,S. and Kumar, A.(2015). Phytochemical and Antimicrobial activity of Terminalia Arjuna, Andrographis Paniculata Andswertia Chirata against Aspergillus Niger and Penicilium. *Int. J.Pharmacol.Bio.Sci.*, 9(1),89-92
 - ii. Verma,P.,Sahu,K., Singh, E., Verma,L., Pandey, S. and Kumar,A.(2015). Evaluation of antibacterial activity and phytochemical analysis of stem and leaf of Madhuca Longifolia, Callistemon Citrinus and Schleichera Triguga. *.Int. J. Pharmacol.Bio.Sci.*,9(1),93-99
 - iii. Motiram,S., Gautam, S.D., Mishra,N., Dadsena, R. and Kumar,A.(2015). Study of the Genetic alteration among tobacco chewers and smokers by micronuclei test. *Int.J.Pharmacol.Bio.Sci.* ,9(2),157-160
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- Students are also actively involved in publishing their project works as well.

5.3.6 Does the college have a student Council or any similar body? Give details on its constitution, major activities and funding.

- The College has a Student Union. The Principal is the Patron of this body and a Professor in charge monitors and looks into the affairs of this body. He is assisted by a student union activities coordination committee that comprises a Convener and four members.
- An ordinance issued by the State government governs the electoral process of the Student Union. The executive council of the union comprises of a President, Vice President, Secretary and Joint Secretary. They are assisted by Class Representatives (CR). As per the ordinance there are reservations for girls in the executive office bearers and class representatives. In the year 2014-2015, the post of the President was reserved for the girl students.
- The Student Union is strictly an apolitical body and acts as a representative of students during the session. The most relevant aspect of the union is bridging the gap between students and the administration.
- The members ensure that student grievances are put up before the authorities and their just demands are fulfilled.
- The Annual Cultural Day celebrations and Annual Sports day are conducted on behalf of the Union. The Union awards students with

cash prizes at the Annual Sports Meet to motivate them to further excel in their sport and inspire others to participate as well.

- They also proactively engage in social awareness drives and blood donation camps for the welfare of students and society. The students also collect funds and donations to help students in need.
- The Union is supported through amalgamated funding by various sources available to the college.

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

- Student Representatives are involved in the following committees:

TABLE: DETAILS OF STUDENT REPRESENTATIVES ON VARIOUS COMMITTEES

S. NO.	COMMITTEE	ACTIVITIES
1.	IQAC	Provide suggestions for quality improvement in the college.
2.	Board of Studies	Provide suggestions on the syllabus
3.	Amalgamated Fund Committee	Provide suggestions for using funds
4.	Student Union and activity societies(Cultural society, social work society, science club physical activity society, society on gender issues, knowledge society, current affairs club, computer literacy society, book readers society, dramatics society and fine arts society.)	An elected body that represents students
5.	Parent Teacher Student Association	The committee caters to feedbacks from students.
6.	Sports Committee	Encourage participation amongst students in various sports.
7.	Cultural Committee	Motivate students towards increased participation in cultural activities.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the College.

VISION

To empower the youth, especially belonging to the underprivileged sections of society, through quality education by inculcating philanthropic values and enabling them to meet the challenges of the contemporary knowledge society.

MISSION

To translate the vision into reality the institution is committed to

- Embrace in its fold students from all sections and categories especially addressing to the needs of the first generation learners.
- Expose the students (especially the under-privileged ones) to variety of activities, academic and extra-academic, aiming at their overall development.
- Inculcate humanistic and social values in the students to motivate them towards community services.
- Kindle the entrepreneurial spirit in students.
- Inspire the young minds to develop the habits of critical thinking to achieve Creative Excellence.
- Promote quality research among the teachers and students.
- Sensitize the students on issues relating to ecology, environment, human rights and gender equality.
- Foster global competencies.

6.1.2 Does the mission statement define the college's distinctive characteristics in terms of addressing the needs of society, the students it seeks to serve, college's traditions and value orientations, vision for the future, etc.?

The college came into existence in 1958 and has been serving the society for the last 58 years. Retaining its tradition and in accordance with its mission it envisions to provide quality education to the diverse student population and address especially to the need of the first generation learners. To promote and encourage young learners to adapt themselves to the global level, the college has also endeavoured and has been successfully preparing

the students to develop entrepreneurial skills. The establishment of an integrated Iron and Steel Plant in 1958 (SAIL) in Bhilai, opened new avenues for youth employment a few decades ago. Over the years the demand for human resource had been increasing and keeping in view with this aim, the college had also endeavoured and had successfully prepared young minds to contribute to the Industrial development of this region.

The college has contributed in a significant way by enlightening the youth of this region through education and fostering a sense of self-assertion to meet the challenges of the changing scenario. In the last two decades the alumni of this college have played a pivotal role in bringing a massive change in the rural society of this region and have contributed a lot to make Panchayati Raj institutions run successfully.

The distinctive characteristic of this institution is based in its tradition to serve the needs of marginalized society and deprived sections of this region. The institution serves their needs by motivating them to achieve self confidence. To enable them to realize their potential for their overall development, the institution also strives to sensitize learners towards social concerns, human rights, gender equality and environmental issues.

The institution believes to empower the youth by encouraging them to participate in various activities and instill positive approach to incorporate new trends emerging in the field of industry and technology. Keeping pace with the changing dynamics in the field of education and to meet the challenges of employment, the college promotes strategies to review and revise the curriculum, introduce new and job-oriented courses. The college is committed to nurture the youth with skills to transform them into a socially responsible citizens for their better future.

6.1.3 How is the leadership involved in

- **ensuring the organization's management system development, implementation and continuous improvement**
- **interaction with stakeholders**
- **reinforcing culture of excellence**
- **identifying needs and championing organizational development (OD)?**

Ensuring the organization's management system development, implementation and continuous improvement:

The institution, funded by the Government has its hierarchy that involves the Governing Body, Principal (leadership), the teaching staff, the non-teaching staff, the student representatives, student union and students. The top

leadership provides the road map and important guidelines to ensure the implementation of the policy rules and regulations. The Principal and the governing body ensure the execution of plans and policies. The top leadership plans, monitors and evaluates mechanisms regarding administrative and academic processes as per the guidelines given by UGC and Department of Higher Education, Govt. of Chhattisgarh. The leadership in collaboration with the IQAC decides the policy statements and action plans to accomplish the stated mission of the institution. It also monitors and reviews the teams and committees to ensure proper functioning of the policies and practices of the college. Various statutory bodies are formed to stream line the decision making such as Governing Body, Academic council, Finance Committee etc.

- **The Governing Body :**

The Governing Body is formed under the statutes, rules and ordinances of the UGC and the State Government to monitor and streamline the policies, decisions and recommendations made by the Principal, the Academic Council ,the Finance Committee, HODs and the faculty for functioning of all plans and policies. On the recommendations of the Academic Council it institutes scholarships, medals, prizes and certification. It approves new programmes, forms committees and fulfill other objectives.

- **The Academic management :**

The Academic council monitors the Autonomy that ensures the formulation of the Board of Studies and review of curriculum. Teaching-learning-evaluation and students' academic progressive performance is discussed regularly. If required, suggestive measures are implemented. The council also monitors and executes extra-curricular and co-curricular activities through the heads of the departments and faculty members. Necessary steps are taken to execute these activities through the committees both academic and extra-academic. The Committees include respectively Admission, Examination, Library, Sports, Hostel Advisory, NSS, NCC, YRC, Discipline, Anti-ragging besides Women cell, Cell for Prevention of Atrocities against Women, Career Guidance and Placement cell, Student and Staff Grievance Redressal cell etc. The committees further take the responsibility for the successful implementation of these plans/activities at the end of the academic session. Each department and committee submits its Academic Audit report along with annual departmental activity report which is then published in the annual **College News Letter 'College Samachar'**

- **Finance Committee and management :**

Since it is a Government funded institution, rules and regulations as per the statutes are implemented. In regular meetings the committees propose and recommend their financial requirements which are then

forwarded to the Principal for final approval. The Finance Committee deals with finances received from the UGC,CPE ,State Government and other agencies and regulates allocation of grants. The *Janbhagidari Samiti* monitors and regulates the funds according to the needs of the institution.

□ **Interaction with stakeholders:**

Following a democratic and an open door policy of leadership the Principal is easily accessible to teachers, students, parents, members of the Alumni Association, non-teaching staff and other stakeholders from the society.

- The Principal interacts with students soon after they seek admission.
- Induction programmes are held in the beginning of each academic session for the first year students. For the post graduate students the departments organize counselling at their levels.
- The Principal remains constantly in touch with the students by taking regular rounds of the college.
- He interacts whenever the need is felt, listens to their problems, grievances and resolves.
- A complaint/ suggestion box has been placed outside the Principal chamber for suggestions or complaints (if any).
- PTSA ensures that all the educational activities are executed as per the mission statement.
- The Principal interacts with the heads of the departments, faculty and student union representatives to ensure the smooth functioning of all the activities and plans. The Staff Council discusses issues concerned with the welfare of students with the Principal during the meetings held regularly.
- Punctuality of the teaching staff is maintained through a bio-metric system. Academic performance is also ascertained through time to time meetings with the heads and faculty of various departments and committees. This helps in enriching and enhancing the college as well as ensuring that the leadership is incessantly functioning as per the needs of the society.

□ **Reinforcing culture of excellence:**

Under the able guidance of the leadership and IQAC, the institution is committed to reinforce the culture of excellence by:

- Imparting quality education to all students especially targeting the disadvantaged group.

- Providing a conducive learning environment to its students and teachers.
- The Staff council, heads of the departments and staff members are accountable therefore to hold regular meetings to review the progress of the syllabi, assess students feedback, maintain attendance records and teaching diary according to the academic calendar.
- Promoting academic excellence by participating in co-curricular and extra-curricular activities.
- Providing opportunities to students to bring out their creative potential.
- Encouraging students to think logically and progress incessantly to achieve excellence inside and outside the campus.
- Inspiring the students to participate in sports, cultural and extension programmes for their overall growth.
- Encouraging the faculty members to pursue research activities, organize and participate in seminars, workshops, faculty enrichment and skill- development programmes.

Over the years the college has made strenuous efforts to meet the goals by retaining its tradition of sustaining the quality and excellence.

□ **Identifying needs and championing organizational development (OD)?**

The leadership, for the betterment of the institution champions organizational changes after identifying the needs of the stakeholders. The Principal through IQAC and Academic Council formulates and implements policy and action plan as per the needs and requirements. In compliance with the stakeholders these changes are communicated and executed through the committees and the staff members. The leadership encourages to take up new challenges and ensures to provide support in the overall organizational development.

6.1.3 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

The senior leadership positions of the college were never left vacant. However, the post of Registrar is lying vacant for the last four years. The college management is pursuing to the Department of Higher Education, Chhattisgarh Government for its appointment.

6.1.4 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

The positions of the statutory, bodies namely, the Academic Council, the Governing body, IQAC, Autonomy Cell, UGC and Board of Studies are filled timely. Meetings are planned and also conducted at stipulated intervals.

<i>Statutory Bodies</i>	<i>Meeting</i>
Governing Body	Once a year
Academic Council	Once a year
Finance Committee	Twice a year
Board of Studies	Once a year
Autonomy Cell	Thrice a year
UGC Cell	Thrice a year
IQAC Cell	Four times a year
Board of Studies	Once a year

6.1.5 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

The college promotes a culture of participative management. The Principal as an academic and administrative head plays a vital role in the governance of the policies and plans and their implementation. Various committees and cells are constituted by the Principal and through a well defined system responsibilities are communicated to the teaching and non-teaching staff members. The leadership provides opportunity to the HODs and the teaching faculty to serve as conveners and professors-in-charge and members of various bodies like the Governing Body, Academic Council, IQAC, Finance Committee, Board of Studies, Autonomy Cell, Examination Committee, Library Committee, Sports Committee, NCC,NSS, Youth Red Cross units etc. For the effective functioning of the academic and non-academic activities the faculty members are given opportunities to serve on different committees viz. Women cell, Grievance Redressal cell, Anti-ragging committee, Legal cell, Welfare committee, Cultural Committee, Literary Committee, Sports Committee etc. The Principal holds meetings periodically with the HODs, staff members and the conveners of all the committees to ensure active participation and effective implementation of decisions.

The Student Union and Student Representatives of the college actively participate by sharing their views and opinions on various co-curricular, curricular and extra-curricular concerns. They are also given opportunity to participate in all the academic and extra curricular activities like sports, social and cultural functions of the college. The college authorities also involve parents in the activities of the college through PTA and PTSA. The college, following an open door policy for all its stakeholders, involves them to share their views and give suggestions for the overall development of the institution.

Realizing the recent developments in the field of industry and technology the college fraternity promotes its involvement with Research Institutes, encourages to sign more MoUs with industries of high repute and collaboration of academia to enhance project and field work etc. The institution also invites suggestions from the Alumni Association for its overall growth and development. The college website displays and highlights its major activities and achievements and keeps in touch with the society through media and press.

6.1.6 Give details of the academic and administrative leadership provided by the University to the College?

The college comes under the jurisdiction of Pandit Ravishankar Shukla University, (PRSU) Raipur. The university works in collaboration with the college by providing academic and administrative leadership at various levels.

- The University supports by granting permission to start new courses, reframe curriculum, syllabi, testing and evaluation pattern and all other academic activities.
- The University also provides opportunities to the college staff to render services throughout the year in all its academic activities.
- The Vice-Chancellor and the Registrar of the University work in a friendly and contributive manner with the college fraternity.
- Since the college is an autonomous institution, the University grants permission to frame the syllabi, conduct exams, do evaluation and declare results.
- University nominees are appointed as members of the Governing Body, the Academic Council and Board of Studies who look into the issues, plan policies for their formulation and effective implementation.
- The university and the college also work in collaboration in organizing extra-academic activities at the regional, state and national level.
- It promotes ,conducts research activities and confers research degrees.

6.1.7 How does the College groom the leadership at various levels?

The college grooms leadership mainly at three levels –Teaching staff, Students, and Non-teaching staff (administrative).

Teaching Staff :

The college administration is run with the support of committees, the conveners and professors-in-charge of these committees are empowered to propose, design, formulate and execute their plans within the framework of governance.

The members work as a team and are accountable to present their skills and efficiency. The leadership expects desired results timely. For the proper functioning of these committees meetings are held in stipulated intervals. The faculty members are appointed on various positions available within the college to support their professional activities to organize programmes / activities to enhance leadership qualities. Faculty members are also appointed as conveners and Professor-in-charge to represent the Committees, Cells and Societies at the administrative level. Autonomy is provided to the faculty for innovative ideas and decision making. The academic, extra-academic and administrative committees which are working efficiently to run the college smoothly are listed below:

List of Committees:

Academic	Administrative	Extra- Academic
<ul style="list-style-type: none"> ▪ Admission ▪ Time table ▪ Library ▪ Research and projects proposal ▪ Internal assessment and model test ▪ Research journal publication ▪ Examination 	<ul style="list-style-type: none"> ▪ Staff Council ▪ Staff Club ▪ Autonomy Cell ▪ <i>JanbhagidariSamiti</i> ▪ IQAC ▪ UGC Cell ▪ Amalgamated Fund and Purchase ▪ Students Scholarship ▪ Write-off ▪ Legal Committee ▪ Right to Information and Public Service Guarantee ▪ Internal Audit ▪ Grievance Redressal ▪ Building construction 	<ul style="list-style-type: none"> ▪ Student Union ▪ NCC ▪ NSS ▪ Youth-Red Cross ▪ Cultural ▪ Anti-ragging and Discipline ▪ Women Cell ▪ Committee on Atrocities against women , ▪ Girls Common Room ▪ Sports ▪ College Magazine and News letter ▪ Environmental

	and maintenance <ul style="list-style-type: none"> ▪ Website ▪ Parent-teacher-students Association ▪ Training & placement Cell ▪ Cleanliness ▪ Press reporting / Media Cell ▪ Skill Development Scheme ▪ Teacher-Employer welfare 	<ul style="list-style-type: none"> ▪ Film Society 'Chhayapat' ▪ Literary
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Students:

For the overall development of students the college initiates a range of activities to institutionalize sense of responsibility and leadership.

- Student leadership is groomed through the elected student union.
- Student union is considered an integral part to promote and inculcate leadership qualities at the college level.
- The office bearers of the student union help in co-ordination with the Principal for various proposals, plans and their implementation through Amalgamated Fund committee.
- Students' Activity Societies, an integral part of student union, organize various co-curricular events in the campus.
- The student union and elected class representatives also co-ordinate in organizing seminars, workshops, and extra-academic activities such as Annual Social Gathering, Youth Festival, cultural and literary events and Annual Sports Day etc.
- Leaders of NCC, NSS and YRC are groomed under their mentors to exhibit their leadership roles.
- They actively participate in community and social service programmes through extension activities. These activities instill in them a sense of discipline, strength and dedication for national integrity and humanity.
- The students also help to organize camps and drives on blood donation, AIDS awareness, *Swachhata Abhiyan*, sapling and tree plantation. They also observe Science day, Earth day, Swami Vivekananda birth anniversary, centenary of distinguished personalities, Teachers day, *Basant Panchami* etc. These activities foster in them a sense of responsibility and enhance their leadership qualities.

- The college promotes ICT training, entrepreneurial skill development programmes to groom the students towards professional development.

Administrative Staff :

Non-teaching staff members also share responsibilities whenever they get opportunities and are called upon to do so.

6.1.8 Has the College evolved any strategy for knowledge management? If yes, give details.

The college has evolved a strategy for knowledge management keeping in view that successful institutions are knowledge driven.

- The Central Library is well equipped with 01 lakh e- books and e- journals, 1507 reference books and text books through NLIST and magazines along with a spacious reading room. Repository and e- resources are availed by the faculty and the students.
- New faculty members participate in orientation and refresher courses organized by the Academic Staff College to update themselves.
- Faculty development programmes, workshops, seminars and conferences are organized from time to time by the departments of all the streams.
- Research activities are encouraged by the research committee among the students and the faculty. Departmental Research Committee has been constituted to look into the matters of research programmes and research activities of the college.
- The faculty is encouraged to participate in conferences, workshops, seminars and present papers at the State, National and International levels. At the same time they are also inspired to publish their research papers in peer-reviewed journals.
- The college has made an attempt towards knowledge management in a way that it is in the process of launching a peer-reviewed journal '**Research Expression**' in 2016.
- Guest lectures, faculty and resource-visit to other institutions and study tours also support and promote knowledge transfer from one to all.
- The faculty also contributes in transferring knowledge by preparing lecture CDs for those colleges in the vicinity which do not have adequate resources.
- Career Guidance and Placement Cell organize skill development programmes, Soft skill training, Entrepreneurial skill training and Personality Development programmes periodically. Olympiad-competitions / Quiz / Debates and literary activities are frequently organized to inculcate aesthetic and appreciative sensibility among students by various departments.

- Almost all the departments of Arts, Science and Commerce streams have well equipped departmental library for PG students.
- Language Lab, Computer Labs etc. all learning resources are equipped with software and have Wi-Fi connectivity.
- ICT blended with conventional method is adopted for teaching and learning.
- The students are encouraged to learn entrepreneurial skills to increase their information / knowledge to mould themselves to become job providers rather than job seekers.
- Skill based research programmes have been adopted to make students more competent.
- Smart class rooms are available.
- All the activities of the college are documented in the “**News letter**” and in the college magazine “**Vyanjana**” published at the end of the academic session. The magazine act as a channel through which the students exhibit their literary and aesthetic skills, innovative ideas and thoughts.

6.1.9 How are the following values reflected in various functions of the College?

- * **Contributing to national development**
- * **Fostering global competencies among students**
- * **Inculcating a value system among students**
- * **Promoting use of technology**
- * **Quest for excellence**

As stated in the vision and mission, the college is all geared up to empower the young minds by undertaking various range of co-curricular , extra- curricular activities which explicate values of quality education .

□ Contributing to National development –

- The college boasts of preparing disciplined, morally and socially responsible youth who are committed towards progression.
- It strives to produce industry-ready qualified human resources to help in the economic development of the nation.
- The faculty members and students undertake meaningful extension activities through NSS, NCC and YRC, to provide social and community services, especially in the rural areas and villages in the neighborhood.
- Promotes community development programmes through various awareness *campaigns and drive like sapling plantation, blood donation, sickle cell anaemia , cleanliness, Anti-Tobacco, and rallies*

on World AIDS day, *Sadbhawna diwas*, and many more activities and events.

- Fosters and inculcates communal harmony and national integrity by *celebrating Independence day, Republic day, birth anniversaries of National leaders, birth anniversary of Sardar Patel and Swami Vivekananda.*

□ **Fostering global competencies among students –**

- Keeping pace with high standards, the curriculum is updated to infuse global competencies among students alongwith indigenous and conventional knowledge systems.
- The college takes efforts to expose and disseminate information about recent developments in the field of science and technology and of changing dynamics in the industrial world. As an evidence, two students of the Chemistry department participated in the International events.
- The college encourages the students towards research and publications. In the last few years 10 papers were published in the International Journals of repute by the students.
- The students also get opportunities to publish their research projects.
- The college strongly emphasizes on enhancing skills in Computer and English communication.
- It offers research oriented graduate, post graduate programmes like Bio-technology, Industrial chemistry, B.Com. with Computer Application, PGDCA, B.Lib.I.Sc., M.Lib.I.Sc. etc. to suit the changing demands of the stakeholders.
- Employability enhancement is promoted through trainings and workshops organized by various departments and cells such as *Solar Training Programme, Ethical Hacking, Trividha: Bhavishya ki Or, Replica Making of Ancient Figurines, National Youth Development Entrepreneurial Training Programme etc.*

□ **Inculcating a value system among students-**

- As stated in the mission the basic objective of the institution is to foster and imbibe philanthropic values promoted through the syllabi adopted by the departments related to Humanities.
- A wide range of programmes, events and activities are organized to orient the students to instill and assimilate universal values of love, compassion, truth and humanity.
- To exhibit their leadership qualities students are encouraged to participate in sports, cultural / literary events, and extra- curricular activities.

- The college has a proposal to introduce Yoga classes for physical and mental wellness. The International Yoga Day is organized on 21st June . The fraternity and the students support this immensely.
 - The students are sensitized on issues relating to environment conservation, human rights and gender equality by organizing workshops, seminars, poster competitions and campaigns like “*save the girl child* ”and through lectures and invited talks etc.
- **Promoting use of technology-**
- The college has 260 computers with the latest configuration.
 - Adequate use of ICT and internet facilities for teaching and learning by the faculty of all the departments. For effective teaching virtual labs, OHP, LCD, Smart Board etc. are used by the faculty.
 - The campus has Wi-Fi connectivity.
 - Computer lab, language lab, science labs etc. all are sophisticated and equipped with latest software. Audio-visual Vivekananda Hall, APJ Seminar Hall, Smart Class rooms and LCD projectors are availed by the stakeholders.
 - The Central Library has Wi-Fi connectivity and is equipped with text books, e-journals, e-books, reference books and with a reading room facility.
 - Students are encouraged to use e-resources to prepare their assignments, seminar papers, research papers etc.
 - The language lab is computerized and is equipped with 30 consoles and a master computer system. It has 15 computers, quality software and good collection of books.
 - State of the art instrumentation is available in the departments of Biotechnology, Chemistry and Physics.
 - The department of Biotechnology is equipped with advanced and sophisticated instruments viz. Gas Chromatography, FTIR, HPLC ,ELISA etc.
 - Digitalization initiatives by the Autonomy Cell are in progress.
 - The institution is processing towards updating its web-site and providing all the information regarding syllabus, admission, timetable, examination, results. On-line provision to download application form through web-site is available.
 - Bio-metric system has been introduced in the college for staff attendance.

□ **Quest for excellence-**

This college is the first college in the state of Chhattisgarh recognized by the UGC *“as a college with potential for excellence”* under Phase III. In its pursuit for excellence the leadership is committed to provide a dynamic learning environment to the faculty and the students. In the last four years consistent efforts have been made and variety of programmes has been successfully organized.

During the last four years 13 Seminars, 13 Workshops, 03 Conferences at National as well as 01 at International level have been organized in the college under the auspices of Faculty and Student Enrichment Programmes, DBT Star Scheme etc. Under the aegis of RUSA 05 workshops on **Capacity Building, Quality Circle and Audit** etc. have been organized.

- IQAC’s primary objective is to ensure internal quality sustenance. The cell has been relentlessly involved in planning and executing policies which have helped in the overall progression of the institution.
- The college promotes inter-disciplinary academic and extra-academic activities.
- The faculty and students are encouraged to participate in the seminars, workshops, conferences and present papers outside the college.
- The college emphasizes to deploy innovative strategies and best practices in disseminating knowledge. The faculty blends both the traditional method as well as ICT for imparting education to students.
- Remarkable achievements both by the students as well as the faculty are appreciated and acclaimed by the Principal.
- Appraisal evaluation feedback from the students are the parameters on which excellence is judged.

6.1.11 Give details of the UGC autonomous review committee’s recommendations and its compliance.

The UGC Autonomous Review Committee’s recommendations and its compliance are given below:

S. NO.	Recommendation	Action Taken
1.	As per New concept of H.E. credit and choice base system needs to be introduced with inter disciplinary co-ordination.	The credit based semester system has been implemented from July 2015 for PG courses.

2.	The affiliating University may be requested for allowing Re-evaluation of answer sheets both in UG and PG courses.	Provision for revaluation at UG level is already there. Letter requesting permission for revaluation of answer sheets in PG courses has been sent.
3.	To retain secrecy stronger the coding of answer sheets should be made before sending for evaluation.	Coding of answer sheets is being done before sending for revaluation.
4.	The college may request the university to nominate/appoint members for the Governing Bodies viz. Governing Board and academic council for smooth functioning of the college.	The affiliating university has nominated/appointed members for Governing Bodies and Academic Council and their meetings were held.

The Review committee of the University Grants Commission visited the institution in 2014. On the basis of the recommendation of the Review Committee, the UGC has extended our institution's Autonomous Status till 2020.

6.2 Strategy Development and Deployment

6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.

- * **Teaching and learning**
- * **Research and development**
- * **Community engagement**
- * **Human resource planning and development**
- * **Industry interaction**
- * **Internationalization**

The college is regularly putting its determined effort to keep pace with modern changes in every field of knowledge. It follows the guide lines of UGC for teaching and learning. New developments and changes in technology, infrastructure or academics are used for the benefits of students. For overall development of students, the college reviews and reframes its syllabi as per to meet the challenges of the stakeholders as well as exploit the latest technological means.

Teaching and learning:

To improve **teaching and learning** and to make it more student- centric, the college provides various opportunities to staff and students such as

- Internet (Wi-Fi) facility in campus.
- Promoting ICT based teaching and learning.
- Introducing new courses viz. B.Lib.I.Sc., M.Lib.I.Sc., PGDCA and Psychology etc.
- Creating smart class rooms.
- Providing LCD projectors and computers to each department.
- Exposure of students to short term projects.
- Guest lectures, seminars, workshops etc. for students and staff.
- Integration of study tours, industrial visits and experiential learning.
- Continuous up-gradation of infrastructure/ learning resources/ Central library.
- Learning through group discussions, seminars, quiz, assignments and presentations by the students.

Research and Development:

To promote research culture and increasing research output, the college provides ample opportunities to carry out research and developmental activities in a way that :

- College research committee bears responsibility for research co-ordination matters.
- Research committee generates awareness among faculty providing proposal formats of different funding agency.
- Fourteen departments (Arts, Commerce and Science) are the centres for Ph. D. course.
- Faculty is motivated to take major and minor projects from UGC, CGCOST, DST, BARC, ICSSR etc.
- Promotes interdisciplinary and collaborative research.
- Promotes more MoU with research institutes and industry interaction.
- Departments identify and motivate the PG students to come into the field of research.
- Organize National and International Seminars/ Workshops/ Conferences.
- College provides well equipped labs, library and other infra-structural facilities.
- Research papers are published in various National and International Research Journals with high impact factors.

- Duty leave is granted to the faculty members for paper presentation or participation in seminars/ symposia/ workshops/ conferences.

Community Engagement:

Extensive community services have been taken up by the college to serve the society. Strong societal services by analyzing various kinds of problems and issues concerned are catered. Some major community services executed by the college are listed below:

- Adoption of village *Thanod* by the College.
- Adoption of Government Higher Secondary School Deepak Nagar, Durg by the Department of Chemistry.
- Environmental awareness/conservation programme conducted by the Department of Zoology.
- Sickle Cell Anemia testing programme carried out by the Department of Biotechnology.
- Mushrooms Culture training by the Department of Microbiology.
- Cleanliness awareness drive carried out by NSS and NCC units.
- AIDS awareness rally, Blood Donation drives, lectures on Save the Girl Child, Health, Hygiene and Nutrition etc. by Youth Red Cross Society.
- Organization of Blood donation camps by YRC and NSS in association with HDFC Bank.
- Health and Hygiene awareness programmes in Primary and High School.
- “Say No to Tobacco” drive.
- Entrepreneurship training programmes to provide employment opportunity to the youth.

Human resource planning and development:

- Teaching staff are allowed to participate in refresher/ orientation courses.
- Steps are taken to fill vacant teaching and non teaching posts.
- Appointments of guest faculty/ part time faculty from *Janbhagidari* funds.
- Teachers are encouraged by giving responsibilities as heads and members of different committees to groom their leadership qualities
- Computerized working.
- Provision of online information to the staff is prioritized.
- ICT facilities for teaching and learning / digital display screen etc.

Industry interaction:

Realizing the need, the college invites experts from industries and has signed MoUs with a few industries to give exposure to the students and prepare them to meet the challenges of entrepreneurs. The college consistently has taken major steps towards industry interaction.

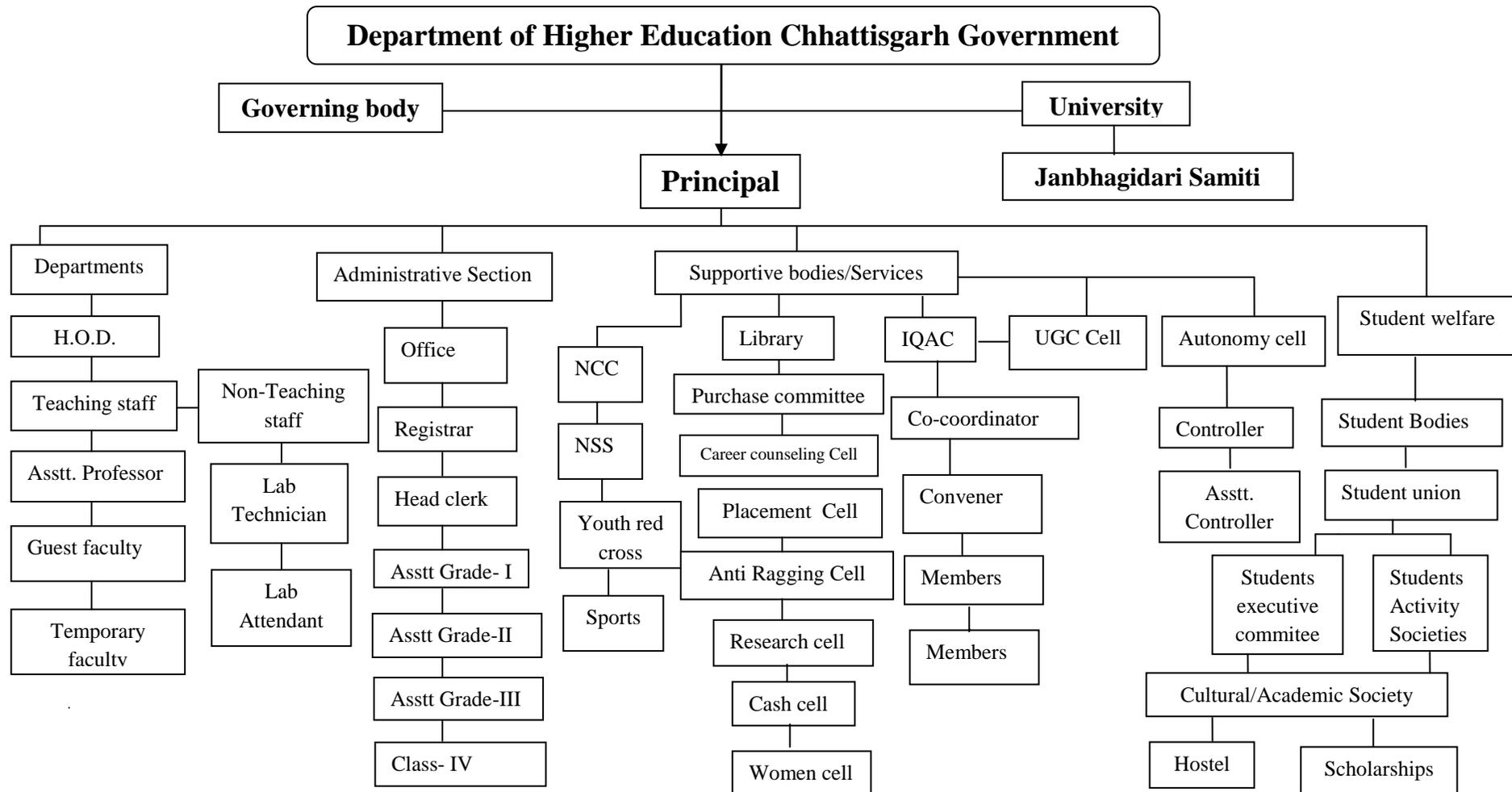
- Visit of students to various industries like Bhilai Steel Plant, BEC, Food Division Plant.
- Biotechnology PG students made a visit to Agro Bio-tech, village Funda and Ethix Pharma, Bilaspur etc. and PG students of Microbiology visited NITZA Biological, Hyderabad, CIAE, Bhopal and other industries to complete their projects.
- Plans to introduce internship program for chemistry students in various industries to enhance their skill and knowledge .
- Organize lectures of experts to guide the students to start their own work
- Invite experts from industries to motivate the students for entrepreneurship.

Internationalization:

The college endeavours to train and equip its students intellectually to compete not only at the national level but also at the international level. The faculty members and students have represented our college by participating and presenting papers in the conferences organized abroad. In the last four years :

- The faculty has collaborated with International Institutes for higher learning.
- The Departments viz. Physics, Chemistry, Bio-technology and Maths have International Linkages and the faculty is working on major projects with their collaboration.
- Eminent personalities from Purdue University (USA), Bangladesh, Nigeria, Taiwan have visited and delivered their talks. Five students have participated and presented their research papers in the international conferences held abroad.

6.2.2 Enunciate the internal organizational structure of the college for decision making processes and their effectiveness.



6.2.3 Specify how many planned proposals were initiated/ implemented, during the last four years. Give details.

A large number of planned proposals relating to different areas like introduction of new courses/programmes, revision of syllabi/curricula, construction and renovation of buildings, refurbishment of labs, construction of girls' hostel, smart class rooms etc. were initiated and implemented. The details of the proposals accepted during the last five years are listed below:

Proposals Accepted during Last 5 years.

Year	Scheme	Funding Agency	Amount Received
2011-12	College with Potential for excellence Phase II	UGC New Delhi	75 Lakhs
2012-13	Star college scheme of (DBT) Department of Biotechnology New Delhi	DBT New Delhi	36 Lakhs
2013-14	Construction of Women's Hostel	UGC New Delhi	40 Lakhs
2014-15	College with Potential for excellence Phase III	UGC New Delhi	88 Lakhs
2014-15	Development of Infrastructure under RUSA	RUSA New Delhi & Govt. of Chhattisgarh	50 Lakhs
2015-16	Construction of 100 Seater Hostel	Govt. of Chhattisgarh	1 Crore

6.2.4 Does the college have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

As per the guide lines of NAAC, an IQAC is formed. The quality policy of college is designed by IQAC. The IQAC is operating with the mission to 'inculcate quality culture with a commitment towards excellence'. The committee takes care of the execution of the curricular aspects catering to the need of students. It also ensures and pursues the policy of teaching, learning and evaluation and facilitates their continuous improvement. The college takes care of creating a conducive teaching-learning ambience. It ensures and pursues the policy of "student centric" approach in teaching. The college adopts and promotes ICT enabled teaching blended with chalk and talk method. The Autonomous Cell evaluates the students' performance through examinations like Internal Assessment, Model test, Home

Assignments, Seminars and Paper -presentations. Academic quality enhancement is encouraged through seminars, workshops, conferences and symposia. The college follows the policy of promoting research both in science and social sciences, commerce and arts by facilitating the faculty as well as the research scholars to produce and publish quality research work. Various departments also provide honorary consultancy services.

A range of extension activities in the form of campaigns and awareness programmes for the society are organized through NSS/NCC/YRC in the neighborhood. The college is committed to provide quality education therefore it keeps on updating and renovating its labs and other infrastructure, constructing labs, digitalization in the Autonomy Cell, providing Wi-Fi connectivity etc. The College gives support especially to the differently abled and other under privileged students through scholarships and stipends. It pursues and deploys the policy of effective governance by conducting internal and external audits in Academic, Administrative and Finance bodies. Innovative strategies are adopted in the areas of teaching-learning, research and extension and also promote protection of environment through 'Green Audit'. The IQAC persistently ensures the deployment of all the above policy statements for sustaining quality and are reviewed by the Academic Audit, Staff Council meetings and Departmental meetings.

6.2.5 How does the college ensure that Grievances/Complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

A Grievance Redressal Cell has been formulated following the directives of the state Government and the University. There is a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship:

- Grievances/Complaints are promptly attended and resolved by the college administration and Grievance Redressal Cell.
- A Complaint/ Suggestion box is placed in front of the Principal's chamber for the stakeholders to put forth their ideas and opinions. Letters are collected every month, analyzed by Principal with the help of senior faculty and resolved by the Grievance Redressal Cell.
- Students put their grievances personally or through Grievance Redressal Cell, HoDs, Discipline and Anti-ragging Committees and Student union.

- The Staff Council helps to resolve the grievances of faculty members.
- Women Cell also helps to resolve grievances reported by women faculty/ girl students.
- The complaints of students with respect to examinations are resolved by the Autonomy Cell.
- The Head of the Departments also attends to the problems of students and staff at their own level.

6.2.6 Does the college have the mechanism for analyzing student feedback and what was the institutional response?

- IQAC collects feedback from students in a specially designed format (Questionnaire) annually.
- Feedback is collected on curricular aspects, teaching methods, institutional performance and faculty performance.
- Steps are taken to improve overall performance of the college by analyzing the feedback from students. Suggestions are considered while framing policies related to institution.
- Feedback is collected from the examiners to improve the curriculum and student performance.
- Feedback is also collected from alumni and other stakeholders informally or directly during alumni/stakeholders meet.
- On the occasion of Annual Day the Annual Report is read out publically depicting the performance of student, teachers, extracurricular and other activities. It ensures that the performances of the institution reach up to all stakeholders and suggestions come from them.
- Needs and problems are also discussed during Governing Body meetings and suggestions are welcomed.
- College website displays important activities and information related to institute.

6.2.7 In what way the Affiliating University helped the college to identify the developmental needs of the college?

- The college is affiliated to Pt. Ravishanker Shukla University, Raipur. After the establishment of Durg Vishwavidyalaya, Durg in 2015 the college comes under its jurisdiction though only 1st year courses of UG are affiliated to it.
- The University supports to review the Autonomous status of the college.
- Board of Studies and other statutory committees such as the Governing Body and the Academic Council have members nominated by University Administration.

- Senior faculties are also nominated in various committees as Chairpersons or members of the University.
- The University nominates professors as subject experts in Board of Studies.
- The University approves the Academic programmes and recognizes the courses and degrees of the college.
- The University always encourages the students and scholars of the college to pursue research.

6.2.8 Does the affiliating University have functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, in what way college is benefitted?

Pt. Ravishanker Shukla University, Raipur has a functional College Development Council. It supports the college in all its developmental initiatives in the following ways:

- The College Development Council helps the college by giving necessary suggestions and academic guidance for raising the standards of education.
- It ensures interaction between academic faculties in the University departments and teachers in the Colleges.
- It also acts as a monitoring body in regard to proper planning and integrated development of colleges

6.2.9 How does the college get feedback from non teaching, teaching, parents and alumni on its functioning and how it is utilized?

- The Staff Council meetings of the Principal with teaching and non-teaching staff are regularly held. The conversations and discussions serve as means for getting feedback.
- Complaint/suggestion boxes placed at important locations in the campus also serve as a channel to express ideas and views related to academic and non-academic activities held in the college.
- Alumni meetings are also organized to get feedback and views from the alumni.
- Parent-Teacher-Student Association (PTSA) meet is organized at least once in a year to discuss issues related to student's progress and feedback from parents is obtained.

6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?

- The college being an autonomous one encourages autonomy to academic departments by giving flexibility in deciding schedules of Board of Studies meetings.
 - The departments have freedom to introduce new syllabus as per the UGC and University norms.
 - The departments organize practical examinations, internal tests, student seminars etc. according to convenient schedule .
 - The individual departments prepare their own Academic Calendar independently to plan various activities for the whole session.
 - Topics of projects (part of syllabus) are decided by the students and the concerned faculty.
 - Each department has freedom to buy books and equipment according to their needs.
- All the departments organize conferences/ seminars and workshops are accountable for the funds and expenses involved.

6.2.11 Does the college conduct performance auditing of its various departments?

The College conducts Academic Audit annually for evaluating performance of the departments. The Principal reviews the performance of the faculty and staff.

6.3 Faculty Empowerment Strategies

6.3.1 What efforts are made by the college to enhance the professional development of teaching and nonteaching staff?

- The teaching departments have organized several lectures of subject experts, under faculty development programmes to upgrade the information level of faculty members.
- Several Faculty members are granted study leave to pursue their doctoral degree as per UGC and Government rules.
- **Prof. Greig Shalnut** of **Taiwan University** visited our college and delivered a talk. Eminent and distinguished recipients of **Bhatnagar Award, Sahitya Academy award** and academicians of high repute have been invited to deliver talks on different subjects.
- College encourages the newly recruited faculty members to participate in Refresher/ Orientation Courses.

- Faculty members are encouraged and granted duty leave for attending seminars /workshops/ conferences etc.
- Research facilities are provided by the college in various departments.
- Establishment of Tissue Culture Lab, Molecular Biology Lab, Microbial and Toxicology etc.

6.3.2 What is the out- come of the review of the Performance Appraisal Reports? List the major decision.

- Performance Based Assessment System (PBAS) as prescribed by the UGC is adopted by the college for academic performance of the teaching staff. PBAS is based on API (Academic Performance Indicator) developed by the UGC. Faculty members fill prescribed proforma for self appraisal. IQAC reviews the API which is then sent to the Commissioner, Higher Education Department, Government of Chhattisgarh. The work performance of teaching and non teaching staff of the college is also evaluated by the Higher Education Department, Government of Chhattisgarh through its own system of appraisal. Heads of the Department put remarks on it and forward to the Principal as Confidential Report (CR). It is then sent to Higher Education Department of C.G. Govt. Raipur along with Principal's remark. All important and relevant information regarding teaching and non teaching staff is recorded in their service book year wise. Following are the out- comes of the review of the Performance Appraisal Reports:
 - API system of appraisal encourages the faculty members to make excellent performance in teaching-learning and research.
 - Records in service books keep them alert and to work as per rules and regulation.

6.3.3 What is the welfare scheme for teaching and non teaching staff ? What % of staff has availed the benefits of such schemes in last four years?

The college has welfare schemes which are availed by the teaching and non-teaching staff members. Whenever the need arises they get benefitted. Following welfare schemes are running in the college:

- Staff quarters for non teaching staff in the campus.
- Concessions are provided in fees for the wards of needy staff members.
- All welfare schemes of CG Govt. such as GPF, GIS, Medical reimbursement, temporary advance or part final against GPF etc. are available for teaching and non teaching staff.

- Concessional medical treatment facilities are available for the staff members and their families within the state and outside the state as well.
- Provision for Maternity leave for the female faculty and female research scholars.

6.3.4 What are the measures taken by the college for attracting and retaining eminent faculty?

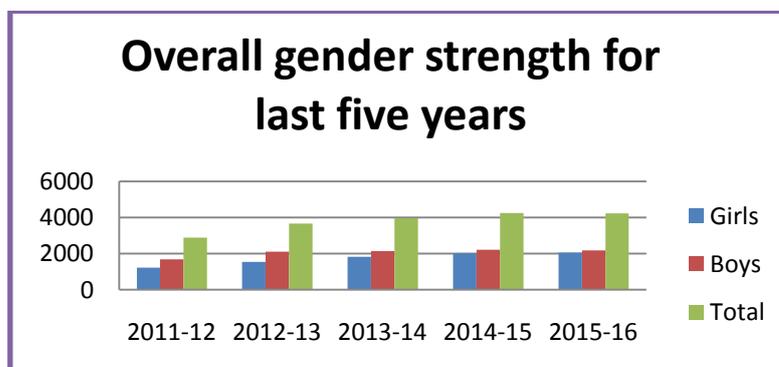
- The college is the oldest, biggest and prestigious institution of the state, hence it provides better teaching atmosphere, healthy competition among faculty and good environment to groom. The Government of Chhattisgarh appoints regular faculty as per the UGC norms.
- College has a well defined recruitment policy to appoint faculty on contract basis through *Janbhagidari* fund. Posts are advertised and appointments are made according to merit.

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

It is a regular practice to keep gender record of students for admission and results :

Overall strength of Boys and girls for last five years :

Year	Girls	Boys	Total
2011-12	1216	1676	2892
2012-13	1446	2110	3556
2013-14	1821	2142	3963
2014-15	2025	2216	4241
2015-16	2055	2177	4226

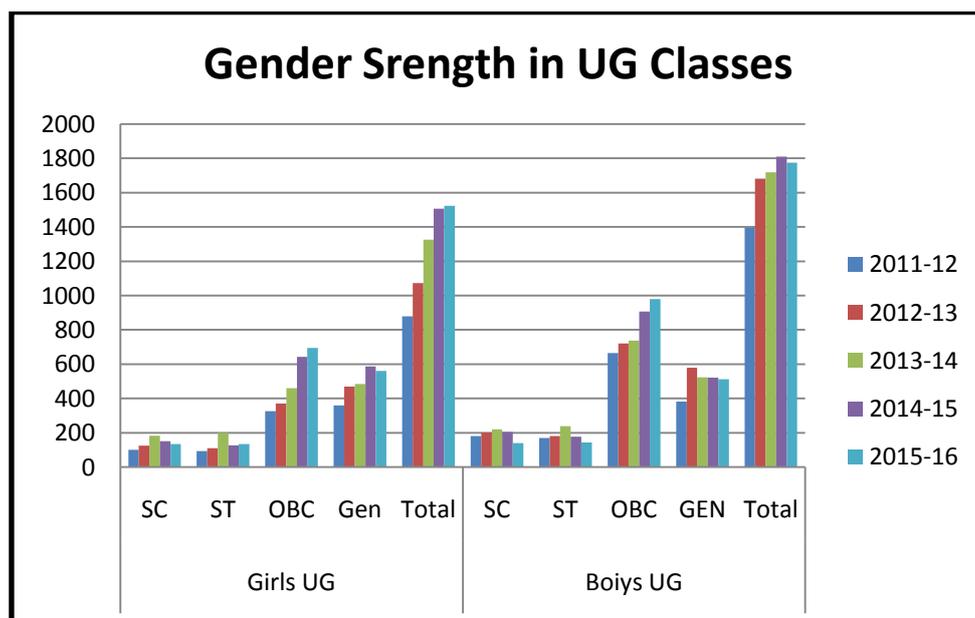


Category wise strength of boys and girls for last five years in UG classes :

Year	Girls					Boys				
	SC	ST	OBC	Gen	Total	SC	ST	OBC	GEN	Total
2011-12	100	93	326	360	879	180	170	665	381	1396
2012-13	124	109	370	470	1073	201	180	721	579	1681
2013-14	182	199	460	485	1326	220	238	737	523	1718
2014-15	151	126	642	587	1506	205	177	906	522	1810
2015-16	135	134	695	560	1524	140	143	980	512	1775

Ratio of boys and girls for last five years in UG classes

Year	Total Strength	% of boys	% of Girls
2011-12	2275	61.36%	39.64%
2012-13	2754	61.03%	39.97%
2013-14	3044	56.43%	43.57%
2014-15	3316	54.58%	45.42%
2015-16	3299	53.80%	46.20%

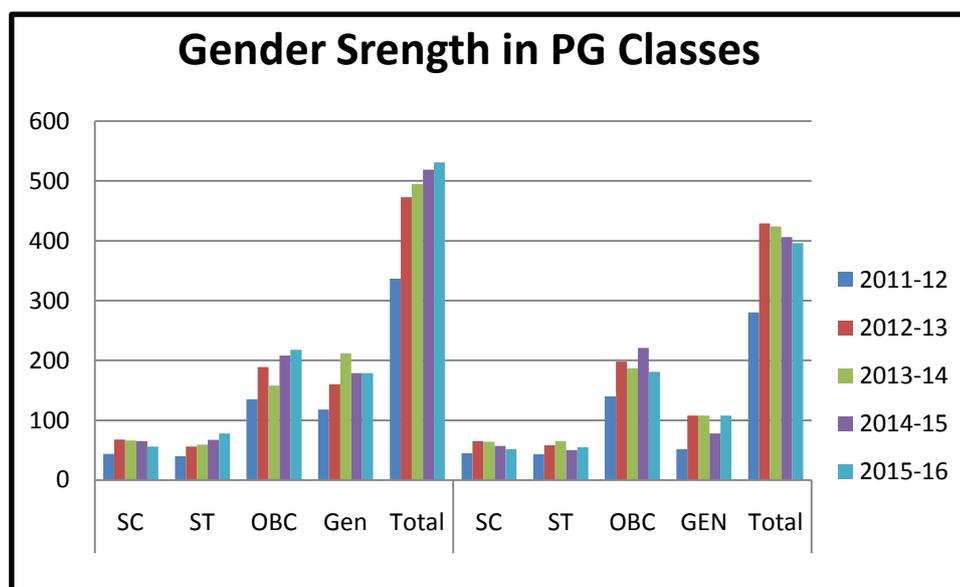


Category wise strength of boys and girls for last five years in Postgraduate classes

Year	Girls PG					Boys PG				
	SC	ST	OBC	Gen	Total	SC	ST	OBC	GEN	Total
2011-12	44	40	135	118	337	45	43	140	52	280
2012-13	68	56	189	160	473	65	58	198	108	429
2013-14	66	59	158	212	495	64	65	187	108	424
2014-15	65	67	208	179	519	57	50	221	78	406
2015-16	56	78	218	179	531	52	55	181	108	396

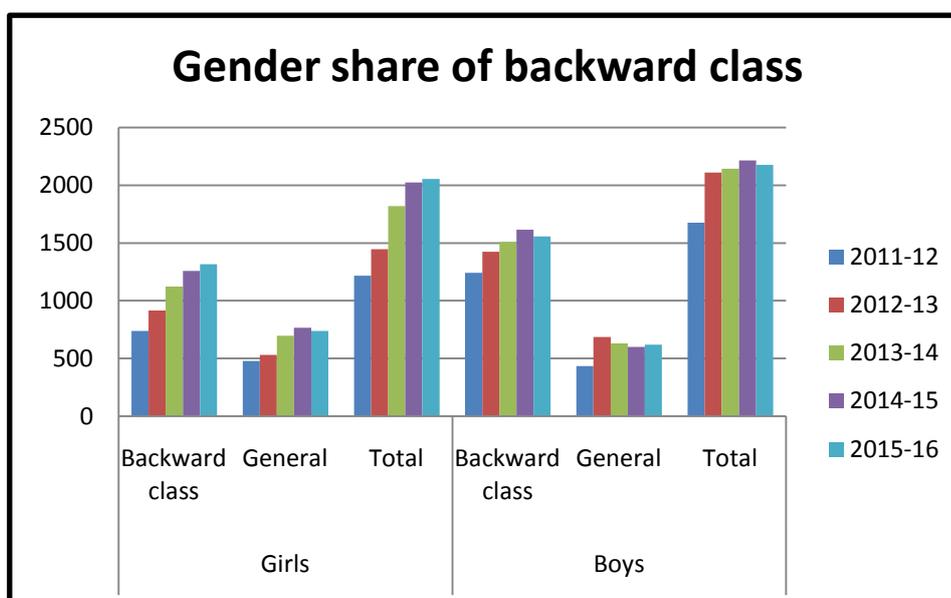
Ratio of boys and girls for last five years in PG classes admission

Year	Total Strength in PG	% of Girls	% of Boys
2011-12	617	54.61%	45.39%
2012-13	902	52.43%	47.45%
2013-14	919	53.86%	46.14%
2014-15	925	56.10%	43.90%
2015-16	927	57.28%	42.72%

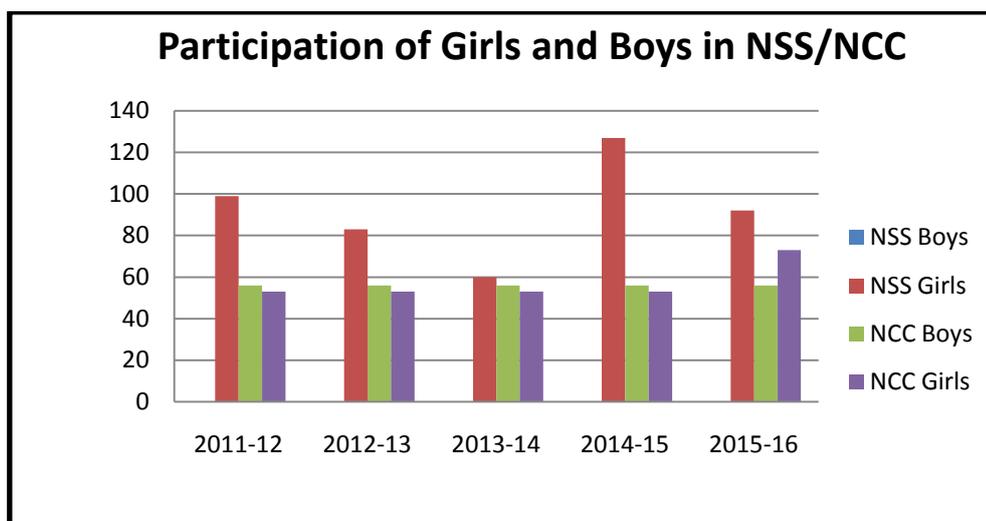


Share of Other backward class students in admission

Year	Girls			Boys		
	Other Backward class	General	Total	Other Backward class	General	Total
2011-12	738	478	1216	1243	433	1676
2012-13	916	530	1446	1423	687	2110
2013-14	1124	697	1821	1511	631	2142
2014-15	1259	766	2025	1616	600	2216
2015-16	1316	739	2055	1557	620	2177

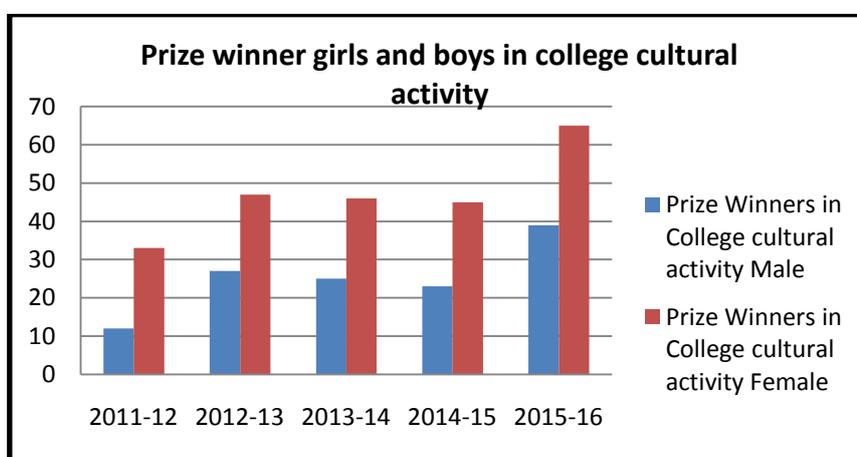
**Girls and Boys in NSS/NCC**

Year	NSS		NCC	
	Boys	Girls	Boys	Girls
2011-12	101	74	56	53
2012-13	186	99	56	53
2013-14	173	60	56	53
2014-15	244	127	56	53
2015-16	207	92	56	73



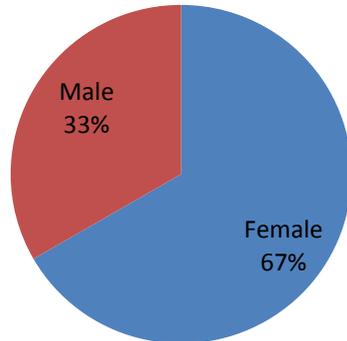
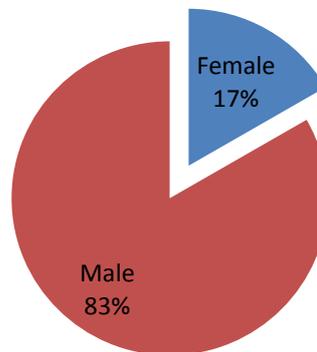
Prize winner girls and boys in College cultural activity

Year	Prize Winners in College cultural activity	
	Male	Female
2011-12	12	33
2012-13	27	47
2013-14	25	46
2014-15	23	45
2015-16	39	65



Gender Strength in regular staff :*Teaching staff**Non-teaching staff*

Departments	Gender Strength		Post	Male	Female
	Female	Male			
Anthropology	01	00	Sports Officer	01	00
Botany	05	02	Librarian	01	00
Chemistry	08	05	Assistant grade I	01	00
Commerce	00	04	Assistant grade II	01	00
Computer Science	01	01	Assistant grade III	01	00
Economics	02	02	Data Entry Operator	01	00
English	08	00	Lab Assistants	11	04
Geography	02	00	Lab Attendants	07	03
Geology	00	02	Taxidermist	01	00
Hindi	04	03	Book Lifter	01	00
History	02	01	Peon	06	00
Mathematics	02	03	Guards	02	00
Microbiology	02	00	Farrash	02	00
Physics	04	00	Gardener	01	01
Political Science	02	01	Sweeper	03	00
Psychology	02	00	Total	40	08
Sociology	03	01			
Zoology	04	01			
Bio-Technology	00	01			
Total	52	27			

Gender distribution in teaching faculty**Gender distribution in non-teaching staff*****Gender wise participation in sports***

Year	Boys			Girls		
	University level	State level	National level	University level	State level	National level
2011-12	17	24	06	02	03	01
2012-13	25	35	-----	03	09	-----
2013-14	24	24	-----	03	03	-----
2014-15	20	21	09	08	09	04
2015-16	09	27	10	05	06	04

Salient Findings:

- Student strength is increasing continuously.
- Percentage of girls is increasing every year both in UG and PG classes.
- Students of backward classes have bigger share in admission.
- Girl-enrolment is more than that of boys in PG classes. It also shows substantial increase during the last five years.
- Result: Success rate of girl students is higher than that of boys.
- Cultural activity : participation of girl students is more than that of boys.
- Sports : participation of girl students is more than that of boys.
- Student leadership – Seats are reserved for girls. In the election of Student Union (2014-15) the post of President was reserved for girls. Secretary and Joint secretary elected were also girls.
- Faculty–
 - i) Gender strength in regular teaching staff–
Female staff - 52 and Male staff – 27.
 - ii) Gender strength in regular non teaching staff–
Female staff - 08 and Male staff 40.

6.3.6 Does college conduct any gender sensitization programs for its staff?

The College has the well constituted Women Cell. It creates awareness for social and ethical issues among students and staff. The Cell also conducts gender sensitizing programmes by organizing lectures and seminars. The Cell has also appointed **Gender Girl** and a **Gender Boy** to create gender awareness amongst students. In 2015-16 a **Gender-Champion** (a girl student) has been selected. **International Women's day** is observed with enthusiasm. Women Cell addresses and meet the gender related issues of the female students and staff.

6.3.7 What is impact of the University's UGC Academic Staff College Programmes in enhancing competencies of the college faculty?

The faculty members have attended refresher/orientation courses and short-term courses organized by UGC Academic Staff College. They are benefitted by knowing more about modern and innovative teaching and research methodology and are equipped to keep themselves abreast of the emerging trends in their respective genres and fields.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

Under the supervision of the Principal the Committees deal with the financial resources received from the State Government, UGC-CPE, *Janbhagidari Samiti*, RUSA and other agencies including DST-FIST, BARC, C-COST and Non- Government funds. The committees plan, propose and monitor the funds received and dispense the funds according to the requirement of the departments in compliance with the recommendations of the Purchase committee and approval of the Principal.

The allocated funds are utilized to purchase equipment, organize seminars, workshops, conferences, extension activities, guest lectures etc. *Janbhagidari* funds are utilized to appoint guest lecturers as per the vacancy and need of the Departments. Non-Government funds are utilized to organize Annual Social Gatherings, Annual Sports Day etc. The administration and the internal audit committee ensure the effective mobilization of available funds.

6.4.2 Does the College have a mechanism for internal and external audit? Give details.

The college has a provision/ mechanism for internal and external audit. The details are given below:

Internal audit is done regularly by the internal audit committee and for the maintenance of all the audits the Accounts Department of the office of the Principal is responsible. Internal audit is also done yearly by a Chartered Accountant appointed by the college authority as per the norms. The audit Report is submitted to the authority.

There is also a provision of external audit to be done by the Accountant General of the Chhattisgarh Government and his team on regular basis. Other financial records are also audited yearly and the reports are submitted to the authority.

6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

The institution has adequate budgetary provisions for academic and administrative activities and a report of the audited financial records of income and expenditure is listed below.

Session	U.G.C.			CPE			Non Govt		
	Income	Interest	Expenditure	Income	Interest	Expenditure	Income	Interest	Expenditure
2011-12	6879469	366386	9140931	3750000	92447	31923	2566134	--	2115967
2012-13	13480194	310372	11058485	--	93365	3272937	2754148	--	2221604
2013-14	2610083	246557	10504763	3000000	57670	3412017	4884767	--	1744069
2014-15	7394034	218374	4029362	25536	32436	10000	4368841	--	2220636
2015-16	10014800	254749	13417948	9550000	62260	4602285	3774785	--	2745661
Closing Balance	3608868			2469295			13354448		

Session	Autonomous			Janbhagidari			RUSA		
	Income	Interest	Expenditure	Income	Interest	Expenditure	Income	Interest	Expenditure
2011-12	5163596	111251	2504582	8920403	57375	8022438	-	-	-
2012-13	3723440	177000	2090841	8301479	280490	7057215	-	-	-
2013-14	2710965	41734	1618448	7059438	200870	3601246	-	-	-
2014-15	6498910	230111	2725249	7470062	173495	2994900	500000	-	-
2015-16	5529156	367434	4257111	10879366	526379	9632150	5502000	9621	5509584
Closing Balance	10474272			10959139			2037		

6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

The accounts have been audited regularly by a chartered accountant. The reports submitted have been satisfactory. External audit report has been satisfactory; so far no major audit objections have been laid.

6.4.5 Narrate the efforts taken by the college for resource mobilization.

The college persistently strives towards progression and achieve excellence by providing efficient resources be it human, natural or financial the college creates and utilizes/mobilizes resources in various ways.

- New construction of building or renovation in the campus, repairing and maintenance of buildings, auditorium, seminar hall, playground, invertors, generators, electrification, garden maintenance, vehicle stand, canteen etc.
- Non-Govt./PD fund is utilized by the college as and whenever the need arises.
- Funds received from the UGC-CPE are utilized /mobilized to meet various expenses to ensure the optimal use.
- Funds for UGC-CPE, DST, BARC, C-COST are meant to be efficiently utilized for research activity – minor or major projects for organizing seminar /workshop/conference.
- The college management also meets expenses on the development of its infrastructure and laboratory renovation.
- Purchase of equipment, tools and books under the UGC-CPE funds are done jointly in recognition and approval of the departments.
- Guest faculty appointed by the college management receives salary from the *Janbhagidari* fund. Other expenses are met from Non-Govt. or PD funds.
- Self financial resources are mobilized to run self financing courses/job-oriented courses. At present there are 13 such courses run by the college.
- For the construction of a computer lab Rs. 10 lacs has been endowed to the institution from M.P. Fund (Member of Parliament Fund) .
- Some endowment scholarships are also awarded / distributed on the prize distribution day or annual day to the meritorious students.

6.4.6 Is there any provision for the College to maintain the ‘corpus fund’? If yes, give details.

Yes, there is a PD fund which is utilized to sustain the financial stability of the institution and to fulfill other requirements of various administrative bodies. The sum restored as corpus funds/PD is approximately- Rs.1,33,54,448 in the institution.

6.5 Internal Quality Assurance System

The college has an internal Quality Assurance System which is administered by the Head of the institution, through Internal Quality Assurance Cell (IQAC). The cell has contributed considerably in executing quality assurance strategies and processes.

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

Annual Academic Audit, which is an important quality sustenance initiative, is carried out by the IQAC to assess the activities and functioning of various teaching departments. A team of auditors, comprising a senior faculty member, an internal and an external member of IQAC and a retired professor, pursues internally designed audit-format, based on NAAC criteria. Audit summary is presented to the Principal. The recommendations of the audit are conveyed to the Heads of the departments and to the conveners of co-curricular committees, so as to improve the quality of work-performance by executing them. The practice of auditing the functioning of co-curricular committees, NCC, NSS, Library and Sports department is introduced in the last session.

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Following the recommendations of Annual Academic Audit, specific measures have been adopted to improve teaching-learning and evaluation which are listed below-

- Emphasis on Student-mentoring through Teacher-Guardian System, wherein 50 students are assigned to every teacher who provides necessary counseling and guidance.
- A functioning Parent-Teacher-Student Association (PTSA).

- Preparation of course plan at the beginning of every session/semester.
- Increased usage of ICT tools in Teaching-Learning process.

- Adoption of a modified pattern of evaluation by introducing a package of mixed variety of questions (essay type, short answer type and objective type) and by incorporating power point presentation and home-assignment in semester examinations.
- Provision of Wi-Fi facility and smart classrooms.
- Establishment of Commerce laboratory.
- More emphasis on out-campus learning through field-visit, excursion and out-reach social activities.
- Automation and digitalization of library.
- Appointment of part-time faculty to the teaching posts lying vacant in all the departments.
- Orientation Programme is conducted by the IQAC for temporary and part-time faculty at the beginning of the session.
- Provision of Socio-Psychological counseling services jointly by the department of Psychology and Sociology for the students when needed.
- Establishment of Research Cell in order to encourage research activities.
- Arrangement of remedial classes, doubt clearing classes for slow learners/ SC/ST/OBC students.
- Holding extra classes for course completion on time.
- Examining students at short intervals by conducting class tests.
- Making seminars compulsory for PG students.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The Staff Council, with Principal as its Chairman and a senior faculty as Secretary, is a central body that plans, monitors and reviews teaching-learning and other activities of the institution. Besides this, IQAC also supports the Staff Council in continuously reviewing and monitoring the teaching-learning process of the college.

Methodologies of operations

In the beginning of the session, a meeting of the Staff Council is compulsorily held in order to discuss and approve the activity plan for

the session. In another meeting, that is mandatorily held prior to the commencement of annual examination, the academic as well as extra-academic performance of the institution, in the session in progress, is reviewed and instructions with respect to examination are given by the Head of the institution. Besides this, a daily teaching diary of each of the faculty members, countersigned by the Head of the department, is presented every month to the Principal for approval.

Outcome

- More accountability in teaching-learning process.
- Improvement in the efficiency of teaching-learning.
- Orientation of students towards learning.
- Significant progress in student performance.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC works towards achieving the goal of improving overall quality of institution. The teaching-learning and other activities aimed at all-round development of students are monitored by IQAC which suggests better methodologies for academic growth and research enhancement of the institution.

- IQAC monitors the functioning of teaching departments and other bodies/committees that effectively document all activities and programmes organized by the institution.
- It reviews the feedback obtained from students and suggests necessary action.
- It oversees developmental activities to improve the academic performance of the institution.
- It encourages the departments to organize in-house Faculty Up-gradation Programmes.
- It conducts seminars and workshops on quality related themes.
- Being a **Lead College**, the Higher Education Department of the State Government has assigned this institution to monitor the quality-related affairs of all the colleges within Durg district. Discharging this obligation, IQAC, on behalf of the college, organizes District Quality Circle Meetings, wherein quality sustenance issues are discussed. Besides this, IQAC provides consultancy to neighbourhood colleges for quality improvement measures.
- Identify gaps in teaching-learning methods and suggests measures to improve the process.
- Conducts annual Academic Audit and offers suggestions for improvement of departmental activities.

- IQAC contributed to quality enhancement by suggesting various measures like developing infrastructure, teaching and learning resources, ICT facilities, research facilities, capacity building of the faculty-students and institution etc.

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

The IQAC of the institution has four external members who significantly contributed to the development of the institution by giving valuable suggestions and information on various quality parameters during the meetings of IQAC.

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

Study on incremental academic growth of students from disadvantaged sections of society have been conducted by the IQAC. Special focus on the performance of these students is given and overall analysis of their performance is carried out. Based on the report, special attention is rendered for the improvement of such students. Socially deprived, economically marginalized and differently abled students are given preference in the college admissions through well defined reservation policy of the Government. They are given fee concessions and scholarships. Efforts are taken to monitor the academic growth of such students.

6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

The Principal, being Head of the institution, administers the process of the institutional mechanism to continuously review the teaching-learning and other activities. He is assisted by the IQAC, Head of the Departments and the Conveners of various committees to support this mechanism. The mechanism includes the analysis of examination results in the opening Staff Council meeting of the session, monthly inspection of the teaching diary of the faculty by the Principal, organization of various activities as per the academic calendar, obtaining feedback from the stakeholders, holding meetings with the students, faculty and other stakeholders, monitoring regular conduct of classes by HODs, submission of syllabus completion report along with teaching diaries and attendance registers at the end of the session, periodic meetings of the Principal with various co-curricular,

extra-curricular and administrative committees etc. All these measures are adopted for the constant appraisal with respect to the functioning of various bodies in the institution.

The impact of these measures is reflected in the improvement in the students strength and their performance in the academic, cultural, sports, and extension activities. Consequently there has been substantial increase in the growth in the funding received from various agencies which resulted in the enrichment of library, up-gradation of laboratories and development of infrastructure in the campus.

In addition to these efforts, the college does adopt participative administrative approach towards reviewing administrative and academic process. Recommendations of the Staff Council, Board of Studies, IQAC and Annual Academic Audit report are presented to the higher bodies such as Academic Council, Governing Body for further review and approval.

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness –

A clean and healthy environment is one of the most desired pre-requisites of the college. To accomplish this, the college emphasizes on adopting some regular practices and bringing environment consciousness to the main and allied campus through various endeavours. The college fraternity including alumni and parents facilitate this process. At present approximately 35% of the college premises is covered with greenery. The staff and students are always working incessantly towards creating awareness to save environment.

In addition to this, the student-associations of all the departments create awareness on various burning environmental issues and provide students multifarious platform to discuss, deliberate and to suggest appropriate solutions. Over the last few years, the college has undertaken a number of initiatives to create environmental awareness in campus such as plantation drives, debates, quiz-competitions, paper presentation, celebration of World Environment Day, Earth Day, wall magazine and invited talks by noted speakers on environmental issues. In this connection **Professor Jon Harber** from **Purdue University, Indiana (USA)** deliberated on “**Climate Change**” in the year 2013. In this series of invited lectures **Professor Greig Shallnut** of **Taiwan** also delivered his talk and shared significant information related to global environmental scenario in 2014. The eminent scientist from NEERI, Nagpur and Chhattisgarh Environment Conservation Board have shared their views with the students from time-to-time.

Realizing the importance of conserving energy many activities are undertaken to make the campus environment-friendly and students are sensitized towards ecological issues. Some initiatives taken regarding this include minimum use of plastic-ware in the college so as to make the campus plastic free. The ground water is recharged through rain water harvesting. The college has also planned for installation of solar panels which can be used as an alternative energy sources. For communication purposes the college prefers to have paperless working by introducing online admission process, SMS alerts, e-mails notices and results.

7.1.1 Does the college conduct a “Green Audit” of its campus?

The college has conducted Green Audit of its main campus. The Green audit of the campus has been carried out as per the government norms and by the Department of Botany in association with two external experts; Dr. J.K.Tiwari, Head of the Department of Botany, Kalyan PG Autonomous

college, Bhilai and Dr. Sushma Mene, Head of the Department of Botany, Bhilai Mahila Mahavidyalaya, Bhilai . The department surveyed the flora of the campus, identified species, counted them and stamped placards on the plants and trees.

The college considers Green Audit as an integral part in its developmental plans. Total area of the college is 25 acres which is divided into three segments- 14 acres (main campus), 2 acres (staff quarters) and 9 acres (boys hostel). Clean Campus drive is taken up earnestly by the faculty and students. A small garden, full of medicinal plants is also established in the campus. Use of dust-free chalks, white boards, interactive boards in some class rooms add to this initiative.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

(a) Energy conservation

- Use of energy efficient CFL and LED bulbs in most of the teaching departments, library, seminar- halls and laboratories.
- Switching off fans, lights, air conditioners, computers and printers, electrical and electronic equipments when not in use is a regular practice.
- Creating awareness among staff and students, lectures on energy conservation are frequently organized.
- The college building and class rooms have sufficient natural light and ventilation to minimize the use of electrical appliances in the class rooms.
- Importance and use of solar energy is promoted extensively. Recently the college has applied to the Department of Non-conventional Energy Sources for the installation of solar panels in the college.
- The college is shifting from CFL to LED technology to save energy.
- Energy efficient equipments are installed in the laboratories.

(b) Use of Renewable energy –

Regarding the use of renewable energy the college has made sincere efforts. The measures taken are listed below:

- A national workshop entitled 'Urja 2015' was organized by the Department of Physics with an aim to spread awareness and provide information to students and staff on energy harvesting materials and techniques for sustainable development.

- MOU has been signed with IIT Mumbai for training the college students on Solar technologies.
- Energy Audit workshop was also organized for students to make them aware about energy audit of their class rooms and laboratories.
- One day workshop was also organized by Department of Physics in collaboration with “Committee for Industry Academia Collaboration”. The main focus of this workshop was to find potential of employment in renewable energy sector.
- The college conducted Energy Audit of the campus in association with the Department of Renewable Energy Resources, Govt. of Chhattisgarh. The recommendations received were sent to UGC for installation of solar panels in the college premises.

(c) Water harvesting –

The Department of Geology provides free of cost consultancy to Municipal Corporation, Durg, other Govt. departments and private sectors. To spread awareness among common people on rain-water harvesting the faculty members publish popular and informative articles in news papers.

Rain water harvesting system has been installed in connection of Indoor Badminton Hall and in future it will be installed with other buildings of the college also.

(d) Check dam construction –

The open space for storage of flowing water is not available in campus. Therefore check dam construction was not followed but disposal of rain water is linked with municipal drainage system. Beside the college has constructed rain water harvesting system in the campus .

(e) Efforts for carbon neutrality-

To keep the college green and clean, every year trees are planted and necessary requirements like water, fencing and fertilizers are provided by the college administration as and when needed. Employees are appointed for periodic pruning of plants. There are no pollution sources in the vicinity. Swami Vivekananda botanical garden in the campus is known for its rich plants of varied species.

Use of LED bulbs is increasing day by day in the college. The cluster of trees in and around the campus provides an effective screen in reducing carbon inflow. The college always encourages students and staff for pool riding of vehicles rather than use of individual vehicles to minimize carbon emission. Use of bicycle is also in regular practice and a majority of students are using public transport, thus contributing towards carbon neutrality. Saving

electricity is our priority. Besides saving power, college is trying to minimize the use of paper. The college is transforming office for e-working with an aim to reduce prospect of carbon emission. For this purpose online admission process, online notification and SMS information system etc have been adopted.

(f) Plantation –

Following steps are taken to make our college campus clean and green-

- To make green a reality, NSS, NCC units along with other students and staff undertake maintenance and plantation of trees in the campus.
- College has developed a Botanical garden having varieties of botanical and medicinal plants.
- “*Sphagneticola Trilobala*” is cultivated in large quantity within the campus using tools of Biotechnology.
- Increase in greenery in and around the campus also helps to make environment eco-friendly.
- Students are encouraged to plant saplings in their homes and hostel premises also.

(g) Hazardous waste management –

Efforts are undertaken to reduce the use of plastic bags and bottles in the campus. Waste generated from Microbiology and Biotechnology laboratories (culture media) is auto cleaned and then disposed to drainage system. Liquid waste generated in the laboratories of Chemistry and other departments are first diluted with water and then discharged.

(h) e-waste management –

e-waste is hazardous to the environment and health and it needs to be recycled and disposed in appropriate ways. Every year an awareness campaign and collection drive is organized by the college. A large quantity of e-waste is collected and sent off for further recycling and appropriate disposal to Municipal Corporation, Durg .

(i) Any other –

Environmental Awareness Campaign during *Durga Puja & Ganesh Utsav*.

In the state of Chhattisgarh, Durga Puja and Ganesh Utsav festivals are celebrated with full fervor. The idols of Ma Durga and Lord Ganesh are immersed in the rivers which ultimately contaminates the water. Similarly use of idols made up of Plaster of Paris is also discouraged as they are more hazardous to the environment.

Keeping all these views in mind the college always encourages students to organize and participate in green and clean initiatives in large number. Devotees are requested to boycott the use of pop idols and the idols made up of artificial toxic colours. They are also requested to immerse the idols in the places which are marked by the Municipal Corporation, Durg.

The students and staff of department of Botany organized environment awareness campaign in the “*Maitri Bag*” a zoo in Bhilai for wildlife protection.

7.2 Innovations

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

To ensure the sustenance of academic excellence the institution has been progressively marching towards scaling new heights through innovative strategies and their executions, the college has adopted the following innovative practices in the last few years.

OUTREACH ACTIVITIES:

I Academia Community Interface Programme (ACIP)

The objective behind adopting this innovative practice is to impart academic expertise for the upliftment and betterment of society through various outreach programmes. These activities open new vistas for the beneficiaries and bridge the gap between the institution and the stakeholders, especially the community. This also inculcates sense of social responsibility among the students and the teaching community.

Many of the departments are involved in this programme, putting their best efforts in an endeavour to translate theoretical knowledge into practice. Some of the activities carried out under this programme are as follows:

I.(a) Organization of Sickle Cell Anaemia Testing and Awareness Camps by Department of Biotechnology

The department of Biotechnology has been running this programme since last ten years in succession. Sickle Cell Anaemia (SCA) is prevalent among certain tribal and economically backward communities, this part of Chhattisgarh, that causes a large section of population to be affected by this genetic disorder. Addressing this problem, the department of Biotechnology organizes testing camps among villagers in different parts of Durg district, wherein faculty and students of the department, with the help of trained technicians, identify the persons affected with SCA, through screening and lab

testing and suggestions regarding preventive measures to be taken, are made. Sensitization and awareness amongst village folk towards consequences of SCA is generated through these camps. The details of awareness and testing camps organized during the period under review (2011-2016) are given in evaluative report of the department of Biotechnology.

(b) Sickle Cell Anaemia Awareness Programme by Department of Sociology in association with NCC and NSS

To make the rural populace aware of the causes and consequences of Sickle Cell Anaemia, department of Sociology and NCC, NSS unit of the college have jointly organized awareness drive. In order to serve the purpose, the department has carried out investigations and survey on SCA affected people in village *Khapri, Kaveli* and *Thanaud*, which has been adopted by the college with the object to bring about social change through philanthropic activities.

II. Free Community Consultancy Services rendered by Department of Geology.

Department of Geology gives consultancy services and expert advise in connection with geological disturbances on earth surface, to District Administration, Durg. To make the common people aware about such phenomena the department gives public consultancy through articles and write-ups in local news papers. For instance, the faculty members immediately visited the relevant spots when incidents of limestone collapse at *Nandini* happened, or a big hole on the earth surface appeared at *Dhamdha* and some hot water sources erupted at *Khursipar*. The department on the basis of spot observations provided necessary suggestions and scientific explanations of the phenomena in the public interest, thus preventing rumour and hearsays among the people.

Besides this, the department constantly serves the community by giving free advice in respect of rain water harvesting system to the people as and when needed. Municipal Corporation Durg, has also been rendered expertise services by the department regarding rain water harvesting system.

III. Laboratory Training Programme for School Students and Teachers

The departments of Physics, Chemistry, Botany, Zoology, Biotechnology and Microbiology have undertaken this programme with an aim to improve the quality of learning among higher secondary school students, by providing them training with respect to conduction of practicals and operation of various apparatus and instruments in the laboratory. The teachers of nearby schools have also been benefited, as Lab Orientation Programmes are conducted separately for them so that they could skillfully and flawlessly perform the practicals.

The faculty members of various departments of Science utilize their academic expertise to enhance the experience of practical learning for students and teachers of schools in the surroundings.

IV. Gyankosh : Audio-Visual Lecture CDs

The college has prepared a series of lecture CDs of the faculty members on various subjects in order to make available some important course content to weaker students of the college in audio-visual form. The CDs have also been distributed free of cost to the distant rural colleges having inadequate teaching staff. The higher education department of Government of Chhattisgarh highly appreciated this initiative.

V. Awareness Drive on Personality Enhancement by Psychology Department

The Psychology department has held awareness drive amongst school students in nearby schools. The students of the department conducted consultancy sessions at Government Boys and Girls Higher Secondary School, *Selud*, in order to motivate students towards personality enhancement.

Motivational conversation has been taken up with students to enhance their all-round development so as to develop confidence and self-esteem in them. These efforts are aimed at emphasizing individual difference and bridging the gap between students coming from rural backgrounds and those having urban opportunities of development.

VI. Poetry workshop by Hindi department

The Department of Hindi organized poetry workshops in nearby higher secondary schools, for college and school students as out-campus activity. The faculty of department in association with practicing poets and critics of the region motivated the students to read and write poetry. In the workshops the content and technique of contemporary poetry were elaborately discussed and students were made aware of the Hindi poetic traditions. Apart from that, the department organized Poet Gathering in the village *Litiya* and *Semariya*, where faculty members and students of the department recited their poems alongwith local poets.

VII. Awareness Camp on Common Prevailing Diseases.

The Department of Microbiology organized an awareness Camp in Govt. Higher Secondary School, *Anjora Dhabha* for the students. The students were made aware of the common prevailing diseases, their symptoms, sources of infections and precautionary measures through lectures, poster presentations, relevant pictures and demonstrations. The students interacted with the college faculty and students. They were informed about blood cells, their importance and blood test.

VIII. Guidance to Farmers by the Department of Zoology

The Department of Zoology organized a camp at *Bhatgaon*, a village near the district headquarters where the faculty alongwith the PG students provided guidance to the farmers as to how to use pesticides, insecticides and fertilizers in a way to lessen the harmful effects and hazards caused. The farmers were also informed about composite farming usually done in the coastal regions of India. This kind of farming is supported by humid climate where no direct sunlight is required and a large number of plants are grown in layers in a horizontal and vertical manner. Composite farming is preferably done in Kerala and Odisha.

2. Adoption of village

With the view to make students aware of the problems of the society and to sensitize them towards community services village *Thanoud*, 15 kilometers away from district headquarter, has been adopted by the college. Initially a survey, based on various socio-economic parameters, was conducted by the students of the Department of Sociology in four villages. The outcome of the survey shows that *Thanoud*, due to proximity with Durg city and industrial township of Bhilai, is facing many socio-economic problems, particularly *Ganja* (Cannabis) and liquor intoxication amongst village youngsters. During the meeting with village *Panchayat* members it was found that this has become a huge, almost epidemic problem for the village. Keeping this in view, the college held a *Gram Sabha*, wherein this issue was discussed with the villagers, present there in a large number. They admitted that things are getting worse since almost a whole generation is being lost to *Ganja* and liquor addiction. A counseling programme was organized and the people were sensitized towards social, mental and behavioural repercussions and health-related ill-consequences of *Ganja* and liquor. The faculty members persuaded the village people towards running the de-addiction drive in the village. The lady *Sarpanch* of the village, an alumnus of the college, played a major role in this endeavour, as she coordinated the whole affairs proficiently and enthusiastically.

The College thereafter decided to adopt the village in 2015. An integrated programme, that addressed a number of societal issues prevalent in the village with focus on combating *Ganja* abuse and sensitization towards Sickle Cell Anaemia, was planned. During the meeting with village folk the problem of Sickle Cell Anaemia was discussed elaborately and tests were carried out to identify the persons affected with Sickling.

Under the **digital India campaign** an interactive session with the students of local Government Higher Secondary School was organized by the students of the college in which the school students were given an exposure and practical training about the electronic filing of complaints to various

government departments. The college students performed a skit to motivate rural students to use internet and smart phones for getting counseling, information about various government policies and plans. The school students were also made aware of the career prospects and opportunities for further studies after passing out higher secondary examinations.

3. Mentoring of Students Coming from Naxal-affected Area.

Chhattisgarh is one of the worst Naxal-hit state in the country. In Bastar region hundreds of people have lost their lives in Maoist attacks, leaving behind a large number of children orphaned. These children are rehabilitated and are provided education by the Government in different parts of the state.

In 2015-16, the college has admitted 70 students from families affected by Naxal violence. They were enrolled in different courses. The college administration gives special attention towards academic progress of these students.

4. Diversity among Staff and Students

The college has a well established record of fostering gender equality among staff members and students. It encourages the staff members to participate actively in academic, non-academic activities and enables them to undertake various responsibilities offered. The staff is equally involved in all decision making processes and has adopted generous flexible working arrangements. It also caters sincerely towards 'gender- intolerance' issues and the problems relating to such issues are redressed by the Women Cell and Prevention of Atrocities against Woman Cell. Till date no such cases have occurred. Moreover, the college also adopts liberal policies for employing non-academic staff members and ensures equal pay for work of equal value. Establishing good gender balance the leadership prefers to constitute committees on which men and women are equally represented. In fact, in many departments the women have taken a lead in sharing the responsibilities of Headship as well as faculty members. The college intends to involve girl students in all its activities both academic and non-academic. Being one of the most prestigious and premium colleges of the state, the role of a president of Student Union is quite challenging and the college provided this opportunity to a girl student in 2014-15 by reserving the seat. Following the cyclic pattern in the student union elections, one post for the girl student has been kept reserved.

5. Public Library

For voracious readers and those who are keen towards knowledge acquisition the institution boasts of preserving a rich repository of books, e-books, research journals in its central library. The staff, research scholars and

students have an easy access to exploit these learning resources, according to their requirements. The library is also open to public especially to the senior citizens who can avail its facilities with minimal subscriptions in the form of caution money. As a public library functions, in a similar way it is open on week days from 9 am to 7 pm. And on Sundays, from 11am to 2 pm. The ambience of the library provides an incentive to readers and especially those who cannot afford to purchase books. Not to exaggerate, as a public library it is fostering and developing the habit of reading as a source of acquiring knowledge as well as recreation and above all providing 'food for the mind and intellect'.

6. Jail furniture

The college with an empathetic and magnanimous gesture has taken a lead by providing opportunity to the jail inmates of Durg Central Jail. Rehabilitation and reformation of the convicts is not only the onus of the jail administration, but also can be shared by anyone in the society as a social responsibility. The VC of the Durg University and the Principal of the college visited Durg Central Jail and interacted with the jail inmates and motivated them to work hard and contribute to the society. To boost up their moral the college placed an order to supply furniture to the institution and this year the inmates behind the bars have exhibited their skilled craftsmanship and a large number of furniture has been supplied to the college. It is a step ahead that the college has taken as an initiative to have their share in the society and join the mainstream that will make them self sustaining and independent.

7. Examination invigilators outsourced

The college provides an opportunity to school teachers of the nearby schools by outsourcing them as invigilators during the annual, supplementary and VYAPAM Exams. The school teachers thereby get many advantages such as getting opportunity to work with experienced and trained senior invigilators as well get experience to show their loyalty and professional ethics. The college administration also gives full support to these outsourced teachers.

8. Examination Reform

- In the context of changing scenario of Post-Globalization era, vast changes like paradigm shift 'from knowledge to information and skill' and a cut-throat competition for employment are being observed. Consequently the pattern of competitive examinations is also undergoing a modification. Getting attuned to most recent pattern of competitive examinations the prevailing system of Autonomous examinations is ought to be revised. Keeping this in view, the college has adopted a modified system of evaluation by introducing a package of mixed variety of questions (essay type, short answer type and objective type) both at UG and PG levels in terminal as well

as in annual and semester examinations. At the end of the session a mandatory model test is carried out for UG students. Power point presentation and home-assignment were incorporated as part of evaluation strategy for PG students in semester examinations.

On the answer sheets provided to the students, margin left is specified and demarcated for optimum and best possible utilization of writing space, causing misuse of space by examinees to be curbed. This practice is cost effective as the consumption of paper considerably went down as compared to the previous years.

In this connection, a major reform in the system of examination is proposed by the Autonomy Cell, which the College Administration has committed to implement from session 2016-2017 onwards. Specified and limited space would be provided on the answer sheet for different types of questions. The examinee has to answer the question in limited words and limited space, as practiced in competitive examinations. This measure would be effective in getting the students oriented towards making the answers accurate and precise. After reevaluation, the photocopy of answer book is provided to the students on demand, if they are not satisfied with the evaluation.

- Bar coding on the mark sheet and other security measures are adopted.

7.3 BEST PRACTICE

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the college.

Best practices I – “ACADEMIC MENTORING OF SCHOOLS” (AMS)

1. Objectives of the practice :

An initiative introduced in the year 2011 with the following objectives:

- To promote collaborative engagements between the institution and neighborhood government schools. The networking aims at sharing knowledge and resources with such schools.
- Providing Institutional support and assistance in upgradation and modernization of facilities rendered by the schools and to bridge the gap between the standard of education delivered by higher education institutions and govt. schools.

- To facilitate sustained and active engagement with government schools dealing with poor infrastructure, shortage and quality of teachers and lack of ICT facilities.
- Providing intellectual and material support such as instruments, chemicals, glassware etc. as per the needs to these institutions.
- To help empower schools to deliver in accordance with fast changing requirements of the nation and society.

2. The Context:

The institute in accordance with the Kothari Committee recommendations of 1966 has been a staunch believer in the adage that “the destiny of the country is shaped in the classrooms and laboratories of schools”. Recent times have been a witness to ever increasing concerns about the quality of education being delivered in government schools and the disconnection between school and higher education institutes. Also, over a period of time the institution was witnessing below par students seeking admissions to the college which drew its attention towards the need of urgent intervention in neighboring schools to help upgrade the standard of education being delivered to students.

The college administration has been sensitive to the lack of infrastructure, technology and shortage of well qualified updated teachers in schools. Keeping in mind the shortage of infrastructure and other need ful, the college has taken initiative to open labortary for nearby schools. Besides we are also providing practical training to school teachers.

With this growing realization that the standard of services being rendered in neighboring schools was not at par and consequently impacting the quality of students seeking admission to higher education institutes, the college aimed at networking with district govt. schools to provide all possible help to schools to facilitate the deliverance of quality education as per the present day sensibilities and necessities. The effort attempts at addressing this urgent necessity and the institute is proud to mention the launch of this practice way before the **Rashtriya Avishkar Abhiyan** (RAA) proposed by the Ministry of Human Resource Development in the year 2015-16.

3. The Practice:

Academic Mentoring of Schools (AMS) as a practice involves active involvement and engagement with schools. It includes providing mentorship to schools as per their requirements. The practice is aimed at networking with government schools that face various constraints which act as a hindrance in delivering quality education to students.

Introduced in the year 2011, the practice involves various departments at an individual level proactively approaching govt. schools in the district and making efforts at understanding the ground necessities of the school. At times schools also directly approach the institution for guidance and help. Detailed discussions and deliberations take place so as to gain clarity as to the nature of help sought and measures to be taken to provide the needful.

Since the introduction of this initiative the college has collaborated with schools for various purposes. Institutional support for infrastructure improvement be it strengthening of laboratories, ICT facilities and introduction of new and latest teaching learning equipments is being provided. A crucial area of concern that has specifically been looked into are measures at strengthening teacher support services in schools via mentoring and peer discussion sessions, training programmes, knowledge exchange programs and free of cost consultancy services to meet the present day requirements of their subjects. As such in the year 2014-15, Computer Science dept. conducted a two day workshop for school teachers at Govt. H.S.School, Deepak Nagar, Durg. Teacher training programmes were also conducted in 5 science departments under the **STAR college scheme of DBT, GOI** and similarly faculty members from the dept. of Physics, Chemistry, Biotechnology and Mathematics collaborated with the District School Education Authority in the year 2015-16 to provide consultancy services to school teachers for knowledge upgradation and improvement in teaching methodologies in Science. It may be noted that during 2011-2015 teacher recruitment drives for vacancies in schools, particularly remote villages were being conducted. Several students passing put from different streams have been joining as *Shiksha Karmis* in these schools. These students are in regular touch with their depts. and frequently seek guidance regarding lab setting, purchase of equipments, curriculum upgradation and so on. Faculty members are also extending their expertise as resource persons in various training programmes organized for school teachers.

Various guidance programmes targeting school students are also being conducted to help them develop a better understanding of their subjects. Dept. of Chemistry in the year 2011-12 conducted various activities for school students to celebrate 'The International Year of Chemistry' and in the year 2013-14 and 2014-15 conducted lectures for class XII students from Govt. H.S. School, Aheri, Sunshine H.S. School station Road, Durg and guided students at Govt. H.S. School, Deepak Nagar (a school adopted by our NGO, Jann Unnayan) regarding Inspire scholarship guidelines.

Awareness drives and lectures being conducted for the benefit of school students are also a regular aspect of this practice. In the year 2012-

2013, 'DST sponsored entrepreneurship awareness camp' was held at Govt. H.S. School, Deepak Nagar, Durg by the Career and Placement Cell. Dept. of Biotechnology in the year 2013-14 and 2014-15 conducted Sickle Cell Anemia test and awareness drives at Govt. H.S. School, Khamariya and Govt. H.S. School, Khapri. Similarly, in the year 2014-15, the Dept. of Geology conducted lectures on rain water harvesting and Nepal earthquake disaster, while the Dept. of Microbiology conducted disease awareness camp for preventing prevailing diseases, targeting students from class IX to XII at Govt. H.S. School, Durg in the same year. Dept. of Physics in the year 2015-16 conducted an awareness drive on Digital India and links for online processes at Govt. H.S. School, Thanaud, a village adopted by the college. Also in the same year the Dept. of Zoology conducted an awareness camp for health and hygiene, blood group determination and nutrition in Govt. School, Potia Kala. While the Dept. of Psychology conducted lectures on Personality Development at the Govt. H.S. Girls and Boys school, Sailud, Patan, the Dept. of Botany helped students at Sunshine H.S. School understand practicals on plant physiology, anatomy and cell biology. The Dept. of Computer Science has also been engaged in conducting workshops for school children from time to time as such a seven and two day workshop was conducted for students of Govt. H.S. School, Deepak Nagar on basics of computer in the year 2013-14 and the year 2014-15.

The college has also opened its Science laboratories to school students. The effort is aimed at popularizing science among school students who are fast losing interest in these relevant fields. Students on these visits get to interact with expert faculties who assist them in developing better insight and aptitude for science as a subject. Fifty students of Govt. H.S. School, *Aheri, Dhamdha* visited Chemistry lab and got acquainted with latest laboratory instruments being used in Chemistry in the year 2014-15.

A noteworthy endeavor by the Dept. of Mathematics has been the organizing of 'Regional Mathematical Olympiad' funded by the Chhattisgarh Council of Science and technology (CCOST) since 2010, a collaborative effort of the dept. with **Homi Bhabha Centre for Science Education** (HBCSE) and Tata Institute of Fundamental Research (TIFR) for popularizing Mathematics and enhancing numerical abilities amongst school students. The district coordinator of this event is a faculty member of the department. The competition involves participation by students from various schools in the district every year. Workshops for clearing these exams are also being conducted by the department.

The AMS practice thus has been driven by the spirit of fostering a culture of inquiry, thinking and creativity amongst both faculty and students of schools in the district. The endeavor aims at raising the

standard of education being delivered hereby and in the process improving the quality of candidates seeking admission to higher education institutes.

4. Evidence of Success:

Over the years this effort at networking with schools has started producing gradual but favourable results. The foremost parameter of gauging this change has been the quality of students seeking admission to the institute that has shown a major improvement over time.

The outcome of our effort has been noticed viz, **Regional Mathematical Olympiad** have been regularly organized by the Department of Mathematics, which resulted in good success rate. In 2015-16, total 619 students were enrolled; among them in first step 36 and in second step 28 students have succeeded. In 2014-15, total 429 students were enrolled, among them in first step 36 and in second step 29 were succeeded. In 2013-14, total 674 were enrolled, among them in first step 36 and in 2nd step 24 were succeeded. Similarly in 12-13 total 330 students were enrolled, among them in first step 30 and in 2nd step 12 were succeeded.

The Sickle Cell Anemia testing and awareness camp in Govt. H.S. School, *Khamariya* and *Khapri* was another major mentionable feat with 2530 and 226 students being tested for such cases.

The college has also actively been seeking feedbacks from schools where such collaborations have taken place to ensure better and impactful future associations. There has been improvement in performance reported by the school staff for students who have attended lectures by resource persons and experts. Similarly an improvement has been reported in results of practical exams amongst students who have had the opportunity of lab visits and expert interactions and guidance. Increased awareness levels amongst students has also been reported by the school staff for issues raised and discussed amongst them via awareness drives and campaigns undertaken by various departments on specific issues of concern. Schools are also reporting increased interest in science subjects amongst students, an issue that has been given immense importance by the college.

Feedbacks received from schools have most importantly revealed enhanced proactive participation in discussions amongst students and rekindling of the spirit of enquiry amongst them post the initiation of such joint efforts.

5. Problems encountered and resources required:

As the college continues its efforts at such collaborations with schools in its vicinity it also realizes the necessity of addressing certain problems it has been facing.

The foremost issue is the time crunch and time scheduling involved in these activities. Apart from the hectic schedule of academics, research and other college activities, coordinating with schools as per their schedules and time constraints has had its share of difficulties. Certain relaxations and restricting overburdening of colleges involved in such efforts would be a necessary help in this direction.

Similarly, the resource crunch faced by colleges for such activities is an added pressure and acts as an obstacle to colleges pursuing such associations. Specific funds by govt. and other bodies would help cater to such efforts.

Also, it has been noticed that such efforts at networking with schools are severely restricted by ground realities such as distance from the college. Certain relaxations for faculties engaging in such efforts would go a long way in further strengthening these individual efforts being made by departments in this direction.

Finally, it needs to be mentioned that at times motivational level and attitude of cooperation from school administration has not been very encouraging and forthcoming. Govt. directives and advisories to schools can ensure much needed cooperation from schools.

BEST PRACTICE II –

“PROMOTION OF QUALITY CULTURE AMONGST COLLEGES” (PQCC)

1. Objectives:

Promotion of Quality Culture amongst colleges (PQCC) as an initiative was introduced with the following objectives:

- The desire to build a ‘**Knowledge Society**’ around. The initiative aims at creating quality consciousness amongst colleges in the state.
- The College in recognition of its standing as the First ‘A’ grade college of the state felt its responsibility to guide institutions across the state in achieving similar standards.
- Being one of the oldest institution in the state and having had opportunities to be exposed to quality education across the country, the college felt obligated to pass on this invaluable treasure of accumulated knowledge to the colleges around.
- Being the lead college of the state and having worked closely with the State Quality Assurance Cell the college has had the opportunity to

understand the urgent intervention required in colleges to enhance the quality of services being delivered.

- As the premiere college of the state the college also has realized the necessity of pooling of resources and sharing of information amongst colleges to help facilitate the sharing of expertise.

2. The Context:

As the world shrinks into a global village and market economies and social needs drive the education system, information dissemination and sharing of knowledge and expertise has become an urgent necessity amongst institutions. No institution can survive as an island segregated from others in present times. Thriving of a healthy upgraded education system requires resources and expertise.

Keeping in mind such fast paced changes in the requirements of Contemporary Education System the college has been closely associated with other colleges seeking advice, guidance and support to help them understand and introduce changes as per the needs of the hour. As an institution that prides itself with having experienced faculty and latest technology the college realizes its duty towards other colleges and HEIs and as such has been making efforts at reaching out to them.

Over a period of time the concept of vertical transfer of knowledge has gradually paved the way for horizontal movement of knowledge. In accordance, the college has been stepping out of its privileged comfort zone and is reaching out to other institutions in their pursuit of excellence and in developing a culture of quality consciousness amongst them.

3. The Practice:

Being the first 'A' Grade College in the State of Chhattisgarh and the lead College in the area, the College has been looked upon by other colleges in the state as an inspiration and mentor. Having had the honour and privilege of being a well recognized institute, the college has over a period of time developed a close association with other colleges through interactions with their administration and staff members. Discussions at various platforms have brought in an understanding and clarity as to the requirements of other institutes.

Being the **Nodal College of Durg district**, our College in coordination with the State Govt. has been assigned the responsibility to look into the administration and academic development of 55 govt. and private colleges in the district. Various outreach and extension measures aimed at quality

enhancement and consultancy services are being provided for such purposes in these colleges.

The College in accordance with its motto of developing a 'Knowledge Society' around itself has consistently been organizing workshops and interactive sessions for other institutions. The Internal Quality Assessment Cell (IQAC) of the college has been at the forefront of these efforts. It frequently organizes meetings with other colleges as per directives from the Dept. of Higher education and as per requirements of Rashtriya Uchcharat Shiksha Abhiyan (RUSA), a govt. endeavour aimed at improving higher education amongst colleges. The institute and its professors have been essaying an important role in ensuring the success of this mission.

The most appreciated initiative in this direction has been the '**Assessment and Accreditation consultancy**' being provided for neighbouring colleges. Necessary consultancy services regarding NAAC parameters and preparation of Self Study Report (SSR) are being provided to various colleges. In the year 2012-15, around 68 Extension Lectures on NAAC parameters were delivered by IQAC members across these Colleges. The purpose was to remove ambiguity and help them develop clarity towards the accreditation process.

Various efforts at developing strategies and measures for implementation of quality education and quality culture within campuses have also been ensured through the formation of the '**District Quality Circle**' in the year 2012-13. The circle headed by the College meets at regular intervals to ensure mobilization of ideas amongst HEIs that include government-run colleges, grant-aided institutions and private colleges in Durg district. This initiative has also been appreciated by the Commissioner, Higher Education department, Govt. of Chhattisgarh.

Realizing the urgent necessity of developing a quality culture amongst colleges and introducing quality consciousness amongst them, the year 2014-15 witnessed five **Rashtriya Uchcharat Shiksha Abhiyan (RUSA) workshops** being conducted for colleges to help them understand the relevance of qualitative improvement in their institutes. The other issue dealt by these RUSA workshops was awareness regarding NAAC parameters. Following workshops have been organized under RUSA:

Date	Topic
28.4.15	Quality Enhancement in Teaching and Evaluation
9.5.15	Capacity Building in Higher Education
15.5.15	

	Role of Media in Improving the Quality of Higher Education
20.6.15	Maintenance of Data, Analysis of Examination-Results & Choice Based Credit System
25.6.15	Higher Education in Durg District : Focus on Future (Road-map for Next Three Years, 2015-17)

The college in association with RUSA and District Quality Circle prepared a road-map for Higher Education of Durg district focusing on creating ambience for quality culture by improving infrastructure and learning resources. A detailed report on these workshops has been published by the college.

The College has had the honour of being selected amongst twenty institutions across the country for preparation of the **National Higher Education Quality Framework (NHEQF)**. Being one of the select few chosen, the college, in the year 2013-14, in a meticulous way organized various workshops for all stakeholders (including colleges) for suggestions to be sent to the Ministry of Human Resource Development (MHRD) for preparation of the NHEQF. This was another effort at introducing connectivity amongst colleges and the national aspirations.

4. Evidence of Success:

PQCC as a practice aimed at quality improvement has been recognized as a joint collaborative effort between the govt., lead college and all stakeholders concerned in the long run. Keeping up with this viewpoint, the college has been guiding various colleges across the state towards quality consciousness. Various efforts at enhancing awareness amongst colleges through lecturers and district quality circle meets have made quality enhancement the prime concern for every college. They have now realized the immediate need to get accredited and in the process move towards major institutional qualitative reforms.

The most relevant impact of this practice has been the introduction of a certain amount of discipline and organized functioning amongst colleges be it in terms of maintenance of records or standard of services being delivered. Benchmarking of Quality has become a priority and colleges from the most remote areas of the district have been reporting introduction of similar best practices that aim at qualitative improvements within the campus.

A citable impact of this practice has been the success in motivating and guiding colleges towards NAAC accreditations and assessments. As a result

of these efforts, improvements have been witnessed in colleges with 118 colleges having submitted LOI as on 16th February 2016 **post the State level quality assessment cell (SLQAC)** as compared to 28 colleges before the assessment. Presently 20 institutions in the state with LOIs accepted are preparing themselves for external evaluation by the NAAC Peer team within the next few months. Similarly, the number of accredited colleges has risen to 74 in the year 2016 as compared to 21 before the SLQAC.

The most noteworthy achievement in this direction of enhanced quality consciousness has been the steady rise in colleges being awarded 'A' grades in the state. At present, the NAAC team has awarded 04 colleges in the state with this honour, an acknowledgement of the vast improvement on the parameters of quality being noticed in colleges across the state.

5. Problems encountered and resources required:

Though this initiative at quality enhancement amongst colleges has started displaying positive results but efforts at quality improvement by the college has had its share of problems. The most citable issue of concern has been the need for institutionalized reforms being sleeked from colleges. It is a well recognized fact that for any institute to develop a culture of change and quality the change has to be internalized rather than being imposed by an external agent. Extraneous motivation and encouragement is temporal while any permanent change requires inside out changes as such bridging this gap between what is and what ought to be has proven to be the biggest challenge for our college.

Closely linked to our efforts at challenging this inertia in colleges has been the understanding of myriad problems being faced by colleges at the grass root levels. Varied factors such as remote location, resource constraints, and quality of students admitted to the institute, exposure of colleges at various platforms, connectedness with other institutes, willingness of staff members to contribute with time and energy and leadership and governance cooperation all contribute in embedding a culture of quality consciousness within colleges. Each of the cited aspects has a crucial role in sustaining qualitative standards within an institute and the college has had to deal with such issues on multiple occasions.

These challenges being faced by the college in introducing qualitative reforms amongst colleges can be ably supported via directives and advisories by the govt. to colleges emphasizing upon strict measures at quality enhancement, rewards for colleges complying with quality standards and withdrawal of benefits on failing in compliance. The Nodal College also has to be additionally empowered by the government to further the cause and get utmost cooperation from the colleges in its vicinity.

Other innovative practice(s) initiated:

To enhance employability skill, a training programme on *Banking Financial Services and Insurance Programme (BFSI)* by *ICT Academy of TamilNadu and Rajiv Gandhi National Youth Development (RGNIYD)* was organized from 20th July to 16th August 2016 in the college for SC and ST students . A large number of students were benefitted.

Tribute to Constable Than Singh Thakur :

The institution feels great pride to mention that an ex-student of this college sacrificed his life fighting courageously against the naxal-terrorists at Manpur. The college fraternity pays heartfelt tributes for his commendable job.

Evaluative Report of Departments

Evaluative Report of the Department of Physics

Teaching, learning and research is the prime strength of the Department of Physics which has been identified as ‘Highly Rated and Star Performing Department’ by UGC CPE. An ICT enabled department, it focuses on project based teaching and learning. The prestigious ‘Young Scientist Award’ was won by a research scholar of Physics. The department is actively involved in research, the thrust being on Thermo luminescence, Nanotechnology and Thin Films. For consecutive five years the coveted ‘Tamaskar Gold Medal’ which is awarded to the student scoring highest marks in the institution, is being won by the students of Physics.

1. Name of the Department & its year of establishment- Physics, Established in -1958.
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Course	B.Sc.
PG Courses	M.Sc.
Research degree Course	Ph.D

3. Interdisciplinary courses and departments involved

The department does not offer any interdisciplinary course .

4. Annual/ semester/choice based credit system

Under graduate course	–	Annual System
Post graduate course	–	Semester System

5. Participation of the department in the courses offered by other departments :
 - Participation in model collage
 - The department does not participate in the courses offered by other departments.

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	02
Asst. Professors	06	03

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. P. Bose	M.Sc., Ph.D.	Prof.	Plasma, Solid State Physics	34	02- 03
Dr.J.K. Saluja	M.Sc., Ph.D	Prof.	Electronics, Solid State Physics	32	04 as a guide, 06 as a co guide
Dr. A. Oudhia	M.Sc., Ph.D	Asstt.Prof.	Solid State Physics	26	03 as a guide, 03 as a co guide
Mrs.A. Shukla	M.Sc., Ph.D. Thesis submitted	Asstt.Prof.	Electronics,Astro	23	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

2015-16	Undergraduate	43%
	Postgraduate	40%
2014-15	Undergraduate	43%
	Postgraduate	40%
2013-14	Undergraduate	43%
	Postgraduate	30%
2012-13	Undergraduate	43%
	Postgraduate	30%

2011-12	Undergraduate	30%
	Postgraduate	30%

9. Programme-wise Student Teacher Ratio

2015-16	Undergraduate	57 :1
	Postgraduate	7:1
2014-15	Undergraduate	62:1
	Postgraduate	6:1
2013-14	Undergraduate	55:1
	Postgraduate	7:1
2012-13	Undergraduate	58:1
	Postgraduate	7:1
2011-12	Undergraduate	57:1
	Postgraduate	6.66:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Lab Technician	04	03
Lab Attendant	04	03

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Minor -“Luminescence a Studies.....”	Dr.J.K.Saluja	UGC	RS. 5,00,000/-
Minor-“Biotemplate based Synthesis of ZnO Nano Partcles	Dr.A.Oudhia	CCOST	Rs. 4,95,000/-
Minor -“Synthesis and.....Phosphors”	Dr.J.K.Saluja	CCOST	Rs. 3,90,000/-
Major- TL studies of live stone, quaking of	Dr.J.K.Saluja Co-Investigator	UGC	Rs. 7,29,000
Minor- Synthesis and characterization of Zns nano particle	Dr. J. K. Saluja	UGC	Rs.1,48,000

Minor	Dr. A. Oudhia	UGC	Rs.5,00,000
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12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Nil

13. Research facility / centre with

- state recognition Yes
- national recognition Nil
- international recognition Nil

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	06
International	91

a) Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	(1) ISSN 2349-1094. Online 2349-1108	(1) Advance physics Letters Vol. 3 Issue 3	Dr. J.K. Saluja Editor in chief	IRD, publications.
		(2) 81-89244-31-0 (3) 81-89244-63-0	(2) Apne Hisse ki dharti (3) Nano vigyan va taknik sab ke liy	Dr.A.Oudhia Dr.A.Oudhia	Vaibav Prakashan, Amin Para, Purani Basti. Raipur Vaibav Prakashan, Amin Para, Purani Basti. Raipur
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

- b). number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	–
Scopus	58
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	–
Others	–

c) Citation Index – range / average - 582

d) SNIP – 0.538 To 0.944

e).SJR 0.336 To 0.597

f). Impact factor – range / average ...1.7-2.7, 2:1...Average – 2.1

g). h-index - 24

15. Details of patents and income generated -.....Nil

16. Areas of consultancy and income generated

Consultancy Service	Income generated
Thermo Luminescence	RS.-15,000/-

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	04
Workshop	02
Others	–

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100% Students have done Projects

Undergraduate programme

b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	07
Undergraduate programme	-10%

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/ doctoral fellows/ Students	Doctoral/Post	Year
1	Moulana Azad National Fellowship	Ms. Huma Nazlibaig Research fellow	Ph.D	2014-2015 2015-16
2	13 th National Young Scientist Award(State level),	Mr. Vikas Dubey – Research Fellow		2015
3	Best Prize for oral Presentation National level	Mr. Vikas Dubey – Research Fellow		2012, 2013, 2014
4	Best Poster Presentation	International seminar Mr. Vikas Dubey		2014

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter-national Level	Topic/Subject	Funding Agency	Outstanding participants
Seminar	11-12 Oct.2011	National Level	Recent Trends in Physics of solids.	UGC	119
Seminar	2 nd -3 rd Dec.-2015	National Level	Energy harvesting materials & Tech.	DST, & CCOST	206
Seminar	15-16 th Jan.2016	International	Recent Trends in Science. And Tech.	Dena & Canara Bank	217
Workshop	2.1.2016	State Level	Solar energy audit	Jan Bhagidari	46
Workshop	24Feb.-5th	College	Instrument	Jan	21

March 2016	repairing Workshop	<i>Bhagidari</i>
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21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female Total
B.Sc	552	262	181	47.18%	
M. Sc	71	11	10	100%	100%

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other states	% of students from other countries
B.Sc	-	99.98	.02	Nil
M. Sc. Physics	-	99.99	.01	Nil
Research	-	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	State P.S.C. 05
Defense Services	01
NET	01
SLET	01
GATE	01

24. Student progression

Student progression	Percentage against enrolled
UG to PG	25%
PG to M.Phil.	---
PG to Ph.D.	22%
Ph.D. to Post-Doctoral	02%

Employed	81%
• Campus selection	01%
• Other than campus recruitment Self Employed	80%
• Entrepreneurs	---

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	50
from other universities within the State	-
from other universities from other States	50

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

- Thesis submitted by one of the faculty.

27. Present details about infrastructural facilities

a) Library

No. of text books	2480
No. of reference books	-
No. of journals/magazines/proceedings	05
No. of e-books	Central library
Xerox copies of out of print/rare books	Central library
No. of CDs/DVDs	25%
Lab. Manuals	manuals of 90% expt. are available in the Lab.

b) Internet facilities for staff and students Yes

c) Total number of class rooms - 02

d) Class rooms with ICT facility ...Computer Lab. One Smart class room

e) Students' laboratories – B.Sc. – 02 Labs, P.G. – 02 Labs, Computer Labs- 02

f) Research laboratories ... - 03

28. Number of students of the department getting financial assistance from College. --
Students get financial assistance as per the government norms.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. – None
30. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
The feedback is used to improve the teaching and evaluative methodology of the faculty.
 - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
The department assists in the centralized feedback of the students on staff, curriculum as well as teaching-learning-evaluation conducted by IQAC. This facilitates the adoption of suitable measures for all round development of students.
 - alumni and employers on the programmes and what is the response of the department to the same?
Feedback is taken and efforts are made at implementing their suggestions.
31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Smt. Siteswari Chandrakar	Asstt. Prof. Govt. College, Saja
2	Dr. Ravi Shrivastava	Asstt. Prof. Engeneering College Bhilai
3	Mr. Devendra Kumar	Accounts Officer(PSC qualified)
4	Dr. Vikas Dubey	Asstt. Prof., BIT Raipur
5	Smt. Somlata Sahu	Asstt. Prof. Govt. College, Rajnandgaon
6	Mr. D.Bala Subramonium	Scientist ISRO, Trivendram
7	Mr. Rahul Sharma	P.O. State Bank of India
8	Vikas Gedam	NET Qualified doing Ph.D
9	Mrs kavita murthy	Nuclear Scientist Canada
10	Mr. S.S. Sansowa	Scientist ISRO, Ahmedabad
11	Dr. P.K. Mehta	Prof. M.S.Univ. Baroda

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts. List also attached Separatel

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	1.Lecture on 'LED and its Application' 2 Lecture on 'Advanced Materials' 3.Workshop on 'Solar Energy' 4.Work shop on 'Instrument Repairing' 5.National Seminar on 'Energy Harvesting Materials.' 6.International Conference on 'Recent Trends in Science and Engineering'9	Dr. K.V.R. Murthy, Dr. D. Vashneya Dr. Nitesh Gupta
2014-15	Lecture on Solar Energy in Home appliance	Prof. N.K. Kela from CREDA
2013-14	Lecture on Personality Development	Dr. Tarlochan Kaur
2012-13	Lecture on 'Light Emitting diodes' Lecture on 'Luminescence'	Dr. K.V.R. Murthy, Dr. S. J. Dhoble
2011-12	Seminar on 'Recent Trends in Physics'	Lectures by various scientists

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1.Class room Teaching 2. Power Point Presentation.
PG Programme	1. Notes printed material, reference books are given 2. Class room Teaching 3. Power Point Presentation 4. Home Assignments Project work, 5.E-notes are given to the Students

- 34 How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
Continuous assessment and monitoring of students is done through home assignment, class test, seminar & power point presentation and unit test.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Visit to Village Thanod	50	By performing “Nukkad Natak” efforts were made by the PG students to acquaint the school students of Thanod with Digital India.
Visit to CSIDC Lab.	50	Students were exposed to many new instruments and their functions.
Visit to Science City Nagpur	48	The students greatly benefitted by gaining first hand experience about the working of different Models.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	1. Solar training programme by the faculties of IIT Bombay 2 . Visit to village Thanod and performed “Nukkad Natak”
2014-15	1.Participated in Quiz programme at IIT Bhubaneshwar on “Digital India” and stood 2 nd .2 Organised Science Gallery in the college campus.
2013-14	Participated in Science Day Celebrations.
2012-13	Quiz Competition, Poster presentation, Model Competition etc. were organized.
2011-12	Seminar on “Recent Trends in Physics of Solids”

37. State whether the programme/department is accredited/ graded by other agencies. Give details. - Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

1. Immense research activity
2. Well qualified and experience teachers
3. ICT facility
4. Rich library
5. Good Infrastructure

Weaknesses of the department

1. Lack of highly sophisticated instruments for research.
2. Lack of supportive staff.
3. Disinterest among students to refer original books
4. Inability of students to comprehend English language which in turn dissuades them from reading standard books.

Opportunities

1. To develop Internationally acclaimed research centre
1. Introduction of some skill development courses
2. M.O.U. with Industry and Institute
3. Develop Linkage with institutions of high repute

Challenges

1. To motivate students towards research
2. Multi disciplinary collaborative research work
3. To create patents
4. To make students read good and original books
5. To acquire linkages with the institutes of great repute

39. Future plans of the department.

- (1) We propose to introduce specialization in:-
 - (a) Material Science and Nano materials
 - (b) M.Sc. in Computer Science
- (2) Certificate programme in Electronic Instrument Repairing
- (3) Certificate programme in Computer proficiency
- (4) To change specialization according to the needs of PG students
- (5) To develop the department as a good Research Centre.

Papers in National and International Journals

Department of Physics

Kaur, J., Dubey, V., Suryanarayana, N.S., Agrawal, S. and Dhoble, S.J., Thermoluminescence study of UV and gamma irradiated Limestone, *International Journal of Nano Tech.and Appl.*, 6 (2), 97-104 (2012). ISSN: 0973-631X

Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., TL and PL Study of beta irradiated calcite collected from Semaria mines of C.G. Basin, *Journal of Atoms and Molecules*, 2 (4), 291-299 (2012). ISSN: 2277-1247

Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., Effect of Annealing Temperature of beta irradiated limestone, *Invertis Science publications*, 5 (3), 162-166 (2012). ISSN: 2454-762X (online), 0973-8940 (Print)

Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., Thermoluminescence and kinetics of gamma irradiated bhutanese stone, *Material Physics Mechanics*, 15, 1-8 (2012). ISSN: 1605-8119

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Dubey, V., **Kaur, J.**, Suryanarayana, N.S., Agrawal, S. and Murthy, K.V.R., TL and PL Study of beta irradiated Bhutanese Stones collected from Bhutan, *International Journal of luminescence and Application*, 2(1) 24-26 (2012). ISSN : 2277 – 6362

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- Kaur, J.**, Suryanarayana, N.S., Jaykumar, B., Dubey, V., Shrivastava, R. and Baig, H. N., TL Glow Curve Study, Kinetics, PL and XRD Analysis of Mn²⁺ Doped CaAl₂O₄ Phosphors, *Journal of Minerals and Materials Characterization and Engineering*, 11 (11), 1081-1084 (2012). ISSN Print: 2327-4077 ISSN Online: 2327-4085
- Kaur, J.**, Dubey V., Suryanarayana, N. S., Swamy, N. K., Pammi, S. V. N. and Ramakrishna, P. V., Thermoluminescence study of ZnS:Cu nanoparticles, *Research on Chemical Intermediates*, 38 (9) 3895-3900 (2012). ISSN: 0922-6168 (Print) 1568-5675 (Online)
- Kaur, J.**, Dubey, V. and Suryanarayana, N. S., Comparative study of ML and PL spectra of different impurity-doped (Zn, Cd) S mixed phosphors, *Research on Chemical Intermediates*, 38 (9), 4337-4349 (2012). ISSN: 0922-6168 (Print) 1568-5675 (Online)
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- Kaur, J.**, Dubey, V., Parganiha, Y., Singh, D. and Suryanarayana, N. S., Review of the preparation, characterization, and luminescence properties of Pr³⁺-doped CaTiO₃ phosphors, *Research on chemical intermediates*, 41 (6) 3597-3621 (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
- Kaur, J.**, Parganiha, Y. and Dubey, V., Luminescence Studies of Eu³⁺ Doped Calcium Bromofluoride phosphor, *Physics Research International*, 2013, (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
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- Dubey, V., **Kaur, J.**, Agrawal, S., Suryanarayana, N.S. and Murthy, K. V. R., Effect of Eu³⁺ concentration on photoluminescence and thermoluminescence behavior of YBO₃:Eu³⁺ phosphor, *Superlattices and Microstructures*, 67, 156–171 (2014). ISSN: 0749-6036
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- Shrivastava, R., **Kaur, J.** and Dubey, V., Effect of co-dopant concentration on photoluminescence properties of Sr₂MgSi₂O₇: Eu²⁺, Dy³⁺ phosphor, *Advance Physics Letter*, 16-18 (2014). ISSN: 2349-1108

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- Kaur, J.,** Suryanarayana, N.S., Singh, D., Dubey, V. and Chandrakar D., Synthesis and luminescence study of Eu^{3+} doped Lanthanum Aluminate phosphor, *Advance Physics Letter*, 22-25 (2014). ISSN: 2349-1108
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Evaluative Report of the Department of Chemistry

The Department of Chemistry envisages achieving excellence in academics and research. Equipped with state-of-art instrumentation facility, research laboratories, departmental library and ICT tools, the department is counted among the best department for education in Chemistry across Chhattisgarh. Nurturing socially responsible citizen having upright scientific and technical knowledge is the prime motive of the department. Besides offering UG and PG programmes, the department, supported by DST-FIST is actively engaged in research work. Conscious of the lacuna in student employability, the department strives for high placement ratio.

- Name of the Department & its year of establishment:** Chemistry, Established in 1958
- Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D. etc.)**

UG Courses	B.Sc.
PG Courses	M.Sc.
Research degree Course	Ph.D.

- Interdisciplinary courses and departments involved**

Course	Departments involved
B.Sc (Biochemistry)	Zoology and Chemistry
B.Sc. Industrial Chemistry	Mathematics and Chemistry Zoology and Chemistry

- Annual/ semester/choice based credit system**

Under graduate course - Annual System
Post graduate course - Semester System

- Participation of the department in the courses offered by other departments**

The department doesn't participate in the courses offered by other departments.

**6. Number of teaching posts sanctioned and filled
(Professors/Associate Professors/ Asst. Professors)**

Teaching Post	Sanctioned	Filled
Professors	01	01
Asst. Professors	13	13 (including 01 Adhoc)

**7. Faculty profile with name, qualification, designation, specialization,
(D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. (Mrs) Anupama Asthana	M.Sc., Ph.D.	Professor & Head	Organic Chemistry	33 Years	06
Dr. (Mrs) Alka Tiwari	M.Sc., Ph.D.	Professor	Organic Chemistry	33 Years	07
Dr. S. Chatterjee	M.Sc., Ph.D.	Professor	Inorganic Chemistry	31 Years	01
Dr. Anil Kashyap	M.Sc. M.Phil, Ph.D.	Professor	Inorganic Chemistry	31 Years	02
Dr. (Mrs) Manju Kaushal	M.Sc., Ph.D.	Professor	Organic Chemistry	31 Years	Nil
Dr. (Mrs) Nutan Rathod	M.Sc., M.Phil., Ph.D.	Asst. Prof.	Organic Chemistry	34 Years	Nil
Mrs. Upma Shrivastava	M.Sc., M.Phil	Asst. Prof.	Inorganic Chemistry	33 Years	Nil
Dr. Ajai K. Pillai	M.Sc., Ph.D.	Asst. Prof.	Inorganic Chemistry	23 Years	05
Dr. (Mrs) Sunitha B. Mathew	M.Sc., B.Ed., Ph.D.	Asst. Prof.	Physical Chemistry	23 Years	01
Mr. V.S. Geete	M.Sc., M. Ed	Asst. Prof.	Inorganic Chemistry	23 Years	Nil
Dr. Ajaya K. Singh	M.Sc., Ph.D.	Asst. Prof.	Inorganic Chemistry	22 Years	14
Dr. (Mrs.) Anupama Kashyap	M.Sc., Ph.D.	Asst. Prof.	Inorganic Chemistry	22 Years	Nil
Mrs. Purna Kathane	M.Sc.	Asst. Prof.	Inorganic Chemistry	20 Years	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	8%
	Postgraduate	8%
2014-15	Undergraduate	8%
	Postgraduate	8%
2013-14	Undergraduate	-
	Postgraduate	-
2012-13	Undergraduate	-
	Postgraduate	-
2011-12	Undergraduate	-
	Postgraduate	-

9. Programme-wise Student Teacher Ratio

Year	Programme	Student Teacher Ratio
2015-16	Undergraduate	112:1
	Postgraduate	3.5:1
2014-15	Undergraduate	104:1
	Postgraduate	3:1
2013-14	Undergraduate	93:1
	Postgraduate	3:1
2012-13	Undergraduate	81:1
	Postgraduate	3:1
2011-12	Undergraduate	66:1
	Postgraduate	3:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	03	03
Lab Attendant	02	02
Peon	01	01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.
Minor Research Projects - Ongoing

S.No.	Name	Title	Funding Agency	Out-lay (Rs.)	Duration
1	Dr. Sunitha B. Mathew	Oxidative degradation of some harmful pesticides-kinetic study	UGC	4.40 Lakhs	2014-2016
2	Dr. Alka Tiwari	Pesticides removal from aqueous solutions by adsorption into paramagnetic styrene based co-polymers.	UGC	4.20 Lakhs	2014-2016
3	Dr. Anupama Kashyap	Studies on analytical chemistry of chemical pollutants	UGC	3.70 Lakhs	2015-2017
4	Dr. Anupama Asthana	Kinetic and thermodynamic studies of adsorption of some toxic metal ions by using nanoparticles entrapped adsorbents	UGC	2.90 Lakhs	2014-2016
5	Dr. Ajai Pillai	Feasibility studies on the development of sensor for monitoring antibiotics in environment	UGC	2.10 Lakhs	2014-2016

Minor Research Projects – Completed (Ongoing during 2011-2015)

S.No.	Name of faculty members	Title	Funding Agency	Outlay (Rs.)	Year/ Period
1	Dr. A.K. Singh	Oxidative degradation of antibiotic/ analgesic by colloidal MnO ₂ in micellar system.	CCOST, Raipur	5.00 Lakhs	2013-2015
2	Dr. Nutan Rathod	Optical & structural analysis of pure and doped lead oxide thin film	UGC	1.90 Lakhs	2013-2015

3	Mrs. Purna Kathane	Superparamagnetic microspheres composed of polyvinyl alcohol and alginate as novel adsorbent for removal of toxicants from aqueous systems	UGC	1.95 Lakhs	2012-2013
4	Dr. Alka Tiwari	Iron oxide encapsulated chitosan microspheres as novel nanocomposite sorbent for detoxification of water	UGC	1.2 Lakhs	2010-2012

Major Research Projects – Completed (Ongoing during 2011-2014)

S.N o.	Name of faculty members	Year/ Period	Title	Funding Agency	Outlay (Rs.)
1	Dr. Alka Tiwari	2011-2015 (3 Yrs with 01 Yr, extn.)	Magnetic nanoparticles loaded cation exchanger sorbents for effective removal of toxic metal ions	BAR C	19,32,250
2	Dr. A. K. Singh	2011-2014 (3 Yrs)	Studies on some chemically deposited nanocrystalline thin films doped with transition and rare earth metallic ions	UGC	12,00,000

12. Departmental projects funded by DST-FIST, DBT, ICSSR, etc.; total grants received- Nil

13. Research facility / centre with

- State recognition Yes
- National recognition -
- International recognition -

14. **Publications:**

National	29
International	80
Total	109

* **Number of papers published in peer reviewed journals (national /international)**

Books with ISBN numbers with details of publishers – Nil

* **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

Web of Science	
Scopus	172
Humanities International Complete	
Dare Database- International Social Sciences Directory	
EBSCO host	
Others	

- * **Citation Index – range / average** – upto 669
- * **SNIP** - upto 1.393
- * **SJR** - upto 1.209
- * **Impact factor – range / average** - upto 3.958
- * **h-index** - upto 13

15. **Details of patents and income generated-** Nil

16. **Areas of consultancy and income generated**

Consultancy Service	Income generated
<ul style="list-style-type: none"> • Guidance for NAAC Accreditation • Guidance for project work, laboratory and research work • Free consultancy in the area of analysis various samples for <ul style="list-style-type: none"> - BE students of nearby institutes - Yugantar College, Shankara College - Medical students - Bhilai Maitri Dental College 	Honorary services

17. Faculty recharging strategies –.

Programme	No. of Faculty benefited
Orientation/Refresher Course	Nil
Seminar(National/International Conferences)	14
Workshop	14
Others (Invited Lectures)	14

- Faculty members have attended a number of National Seminars, Conferences and Workshops since last five years in order to update their knowledge in the field of Chemical Sciences.
- Faculty members visited various labs of National repute
- Collaboration with National Institutes led to development of new skills to promote mainly in the area of research collaborations with-
 - University of Dhaka, Bangladesh
 - Tribhuvan University, Kathmandu, Nepal
 - Florida University, USA
 - Osaka University, Japan
 - BARC, Mumbai
 - IICT Hyderabad
 - IIT, Mumbai
 - IIT, Chennai
 - IIT Kanpur
 - JNU, New Delhi
 - Allahabad University, Allahabad
 - RTM Nagpur
 - Hislop College, Nagpur
 - Govt. Model Science College, Jabalpur
 - Pt. Ravishankar Shukla University, Raipur
 - Chhattisgarh Swami Vivekananda Tech. Univ., Bhilai
 - Kalyan PG College, Bhilai

- National/International Seminars/Conferences and Workshop were organized. Details of which are as follows:

International Conference on Recent Trends in Science and Engineering

With an aim to provide a platform for students, engineers, researchers and scientists to share knowledge and ideas in recent trends in the field of Science and Engineering, an interdisciplinary conference ICRTSE 2015 involving Chemistry and Physics department was organized on 15th & 16th January, 2015. The conference was inaugurated by **Shri K. Subramaniam** (IFS), Additional Chief Conservator; Forest C.G Govt. **Dr. N.B. Singh** from Research and Technology Development Centre, Sharda University, Greater Noida was the Keynote Speaker. He spoke on Nanomaterials and their applications. **Dr. S. J. Dhoble**, Department of Physics, RTM Nagpur University, Nagpur delivered a talk on Synthesis of high sensitive phosphors for thermoluminescence dosimetry. **Prof. Sreekantha B. Jonnalagadda**, School of Chemistry & Physics, University of KwaZulu-Natal, South Africa gave a talk on Green Chemistry of Ozone and AOPs in water treatment and Value added conversions. **Dr. Rameshwar Adhikari**, Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal and Nepal Polymer Institute (NPI). Kathmandu, Nepal spoke on Flexible Nanocomposites and Blends Based on Styrenic Block Copolymers: Structure-Properties Correlation. **Md. Abu Bin Hasan Susan**, Department of Chemistry, University of Dhaka, Bangladesh spoke on Water in Oil Microemulsions as Nanoreactors for Preparation of Polymer Nanocomposites with Tunable Optical and Antibacterial Properties. **Dr. A.K. Bajpai**, Bose Memorial Research Laboratory, Department of Chemistry, Govt. Autonomous Science College, Jabalpur (MP) spoke on Macromolecular Nanomaterials: Intelligent Architectures to Treat Complex Diseases. **Prof. K. K. Ghosh**, SOS in

Chemistry, Pt. R.S. University, Raipur delivered talk based on Surface Chemistry. The conference was concluded by words of encouragement by the Chief Guest **Dr. N. P. Dixit**, Vice Chancellor, Durg University.

National Seminar on Recent Trends in Chemical Sciences and its Future Prospects

In the International Year of Chemistry 2011, Chemistry department organized a national seminar sponsored by UGC, Bhopal and supported by CG COST, Raipur entitled "Recent Trends in Chemical Science and Future Prospect" on 11th and 12th October, 2011. The seminar offered a platform for discussing some of the frontier areas of research like nano and Green Chemistry, kinetics and catalysis, material science, etc. **Prof. Alok Shrivastava**, Professor, Panjab University, Chandigarh gave the Keynote address on 'Clean Energy for Green Earth: Myth and Reality', **Prof. O. P. Yadav**, Haramaya University, Ethiopia delivered talk on 'Removal of Organic Pollutants from Wastewater using Nano-size Semiconductor Photocatalysts', **Prof. Surya Prakash Singh**, IICT Hyderabad acquainted with Highly Efficient Dye Sensitized Solar Cell, **Prof. A.P. Mishra**, H.S.Gour University, Sagar spoke on Biomedicinal aspect of Metal Chelates, **Prof. Rama Pande**, Prof. and Head, SOS in Chemistry, Pt. R.S. University, Raipur delivered talk on 'QSAR and Drug Designing for Anti-tumour/Anti-cancer Activity'.

Workshop on Green Chemistry and Instrumental Techniques

To create an awareness of sustainable development, emphasis is on Green Chemistry. As a part of this program, the Chemistry Department with the support of UGC, organized a workshop on "Green Chemistry and its Future Prospects" on 30th November, 2015. **Dr. R.K. Sharma**, Prof. Delhi University and Chairman, North India Zone, Royal Society of Chemistry, London was the Chief Guest. He delivered a talk on

development without destroying the environment. **Dr. A.P. Mishra**, Head, Department of Chemistry, Sagar University gave an informative talk on microwave technique based research. On his concluding remarks, **Dr. N.P. Dixit**, Vice-Chancellor, Durg University spoke on generation of green house gases during activities in daily.

- Days of National/Scientific relevance were celebrated wherein various events like poster and paper presentation, quiz competitions, etc. and lectures were conducted
- A number of guest lectures/invited talks were organized for the benefit of faculty as well as Ph.D. scholars.

Invited Lectures

S.No.	Guest	Topic	Date
1.	Prof. Gulshan Relhan from BARC, Mumbai	Analytical techniques	16/02/2012
2.	Dr. V.P. Maithil, Forensic Scientist Director, Chhattisgarh State	Role of Chemistry in Forensic Science	08/09/2012
3.	Dr. R.N. Prasad, Professor, Chem. Dept., Rajasthan University, Jaipur	Transition Metal Complexes and Group Theory	10/09/2012
4.	Shri K. Subramanyam (Faculty Chemistry), Addl. Chief Conservative Forest and Narcotics and Controller Vyapam	Medicinal Plants and Narcotic Drugs	25/09/2013
5.	Dr. N.P. Singh, Allahabad University	Bent rule and Walsh Diagram (Group Theory)	24/10/2013
6.	Technical Engineer on AAS and UV-Vis Spectrophotometric analysis	Instrument training workshop	21/01/2014- 22 /01/2014

7.	Dr. Rajnikant Sharma (Alumni member), Senior Scientist, CWC Nagpur	Big research- better writing	11/02/2015
8.	Dr. H.N. Dubey Dist. Co-ordinator Pt. Sundar Lal Sharma Vishwavidyalaya	Co-ordination Chemistry	24/09/2015
9.	Prof. Dinesh Varshney , Devi Ahilya Bai University Indore	Material Science	07/11/2015
10.	Dr. Hemlata Mahobey, Rtd. Principal and Subject Expert, Chemistry	Mass Spectroscopy	05/09/2015
11.	R.,K. Sharma, Babasaheb Ambedkar University, Noida	Green Chemistry	30/09/2015
12.	A.P. Mishra, Sagar University	Green Synthesis	30/09/2015
13.	Dr. P.S. Kalsi, Ludhiana University	Stereochemistry	08/03/2016
14.	Prof. J.S. Yadav (Bhatnagar Awardee) Hyderabad	Chemistry for sustainable development	06/04/2016

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100% M.Sc. Chemistry Students (Semester IV)
Undergraduate programme	100% B.Sc. Biochemistry Students 100% B.Sc. Industrial Chemistry Students

b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	20%
Undergraduate programme	----

19. ional and international level by FaculAwards / recognitions received at the natty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1.	CG Young Scientist Award	01 Doctoral Student	2014
2.	CG Young Scientist Award	01 Doctoral Student	2015
3.	Post- doctoral Fellowship	01 Doctoral Student	2014
4.	Rajiv Gandhi Fellowship	02 Doctoral Student	2012, 2013
5.	Paper Presentation at International Conference/ Congress <ul style="list-style-type: none"> • Malaysia • Poland • USA 	01 Doctoral Student	2015
6.	Paper presentation and certificate of merit award ACS American chemical society from division of environment section San Diego California March 13-17	01 Post-doctoral student	2016
7.	Sports- Bronze medal in Wako India Cadet & Senior National Kick Boxing Championship	01 PG Student	2014

20. Seminars/Conferences/Workshops organized and the source of funding (National /International) with details of outstanding participants, **if any.**

Seminar/ Workshop	Date	National/ Inter- national Level	Topic/Subject	Fund ing Agen cy	Outstanding participants
Seminar	11 -12 th Oct. 2011	National	Recent Trends in Chemical Sciences and its Future Prospectus	UGC	116
Workshop	21-22 nd Jan. 2014	National	Instrument Training Workshop	-	22
Workshop	30 th Nov. 2016	National	Green Chemistry	-	86
International Conferences	15 -16 th Jan. 2016	International	Recent Trends in Science and Engineering	-	217

21. Student profile course wise

Name of the Course	Applicatio ns received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	1726	485	525	57.44	62.09
M.Sc.	205	10	15	98	100
Ph.D.	06	-	05	-	-

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.Sc.	-	95%	5%	-
M.Sc.	60%	100%	-	-
Ph.D.	20%	100%	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	---
Defense Services	----
NET	---
SLET	01
GATE	01
Other	01
State P.S.C. and State Govt. Exams	32

24. Student progression

Student progression	Percentage enrolled	against
UG to PG	30%	
PG to M. Phil.	5%	
PG to Ph.D.	10%	
Ph.D. to Post-Doctoral	4%	
Employed Campus selection	12%	
Other than campus recruitment	85%	
Entrepreneurs	-	

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	61.5
from other universities within the State	30.8
from other universities from other States	7.7

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – 02 Faculty awarded Ph.D.

27. Present details about infrastructural facilities

a) **Library** – A separate library with following infrastructural facilities –

- Reading Room
- Text & References Books
- Computer with Internet Facility
- Ph.D. Thesis

No. of text books	2000
No. of reference books	500
No. of journals/magazines/proceedings	03
No. of e-books	07
Xerox copies of out of print/rare books	03
No. of CDs/DVDs	07
Lab. Manuals	05

- b) **Internet facilities for staff and students** - Available
- c) **Total number of class rooms** - 03 for PG apart from UG classrooms
- d) **Class rooms with ICT facility** - 02
- e) **Students' laboratories** - 04
- f) **Research laboratories** - 06

28. Number of students of the department getting financial assistance from College.

UG - PG students are getting financial support in the form of SC/ST/OBC/BPL scholarships as per Government rules and Research scholars are availing National fellowships – JRF, SRF, CSIR-NET, Rajiv Gandhi and Maulana Azad fellowships as well as University scholarships

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, before the development of new program, assessment exercises were undertaken in terms of its demand as well as its scope & curriculum designed accordingly.

30. Does the department obtain feedback from**g) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, Experts from various nearby institutes are members of Board of Studies and their feedbacks and suggestions are incorporated while designing curriculum.

h) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

A regular yearly feedback from students is taken on staff, curriculum development and also teaching, learning evaluation process. The department tries to nullify or minimize the shortcomings highlighted in the feedback by apprising the faculty with the feedback.

i) Alumni and employers on the programmes and what is the response of the department to the same?

Informal feedback is obtained from alumni as well as employers' and their suggestions are taken into account for improving quality.

31 List the distinguished alumni of the department (maximum 10)

No.	Name of Alumni	Qualification	Position held	Contribution
1.	Shri K. Subhramaniam	M.Sc., IFS	Additional Chief Conservator, Forest	Key Speaker/ Resource Person
2.	Shri Ashok Sharma	M.Sc.	Retd. DGM, BSP	Sponsor Endowment fund
3.	Dr. K. Krishnani	M.Sc., Ph.D.	Scientist, ICAR, Pune	Research Guidance
4.	Shri. Rakesh Kumar Jha	M.Sc.	Manager, Chemical & Env., Sencorp power & water Comp., Oman	Supported students through Placement
5.	Dr. Rajnikant Sharma	M.Sc., Ph.D.	Senior Scientist CWC, Nagpur	Invited Talk
6.	Dr. Rakesh Dewangan	M.Sc.	Scientist, Central Ground Water Pollution Board, Raipur	Lab visit
7.	Dr. Rama Murti	M.Sc., Ph.D.	Editor, University News, New Delhi	
8.	Shri. Baldeo Singh Bhatia	M.Sc.	MD, Paper industry, Rajnandgaon	
9.	Dr. Satish Chandra Mishra	M.Sc., M.D.	Apollo, BSR, Bhilai	
10.	Pooja Tiwari	M.Sc.	Lab Analyst, Indian Oil,	

			Mumbai	
11.	Shri. Gulshan Kr. Thakur	M.Sc.	Technician, State Forensic Lab, Raipur	Lab visit
12.	Dr. Santosh Sar	M.Sc., Ph.D.	Professor, BIT, Bhilai	Guidance & Counselling
13.	Dr. Arti Gupta	M.Sc., Ph.D.	Prof., Govt. Girls College, Durg	
14.	Dr. Aruna Sao	M.Sc., Ph.D.	A.P., Govt.College, Arjunda	
15.	Dr. Alpa Shrivastava	M.Sc., Ph.D.	A.P., Govt.College, Vaishali Nagar	As Judge in various competitions
16.	Shri. Jagrit Kumar	M.Sc.	A.P., Govt.College, Patan	Examiner
17.	Dr. Ghanat Joshi	M.Sc., Ph.D.	A.P., Govt.College, Mohala	
18.	Dr. Ashish Bhui	M.Sc., Ph.D.	A.P., St. Thomas College, Bhilai	Examiner
19.	Dr. Kanchan Upadhayay	M.Sc., Ph.D.	Lecturer, KPS, Bhilai	
20.	Dr. Prachi Nimje	M.Sc., Ph.D.	A.P., Engineering College	
21.	Dr. Girija Pataila	M.Sc., Ph.D.	A.P., Govt. College, Dondi	
22.	Ku. Savita Pataila	M.Sc.	Chemist, CSEB, Korba	
23.	Dr. Vinod Jena	M.Sc., Ph.D.	A.P., Govt.College	
24.	Dr. Dipti Tikariha	M.Sc., Ph.D.	A.P., Govt.College	
25.	Dr. Birendra Jangde	M.Sc., Ph.D.	A.P., Govt.College, Kawardha	
26.	Dr. Urmila Tamrakar	M.Sc., Ph.D.	Lecturer, Govt. School	
27.	Dr. Reena Negi	M.Sc., Ph.D.	A.P., Engineering College, Haryana	
28.	Dr. Tulika Dewangan	M.Sc., Ph.D.	A.P., Govt. Girls College, Korba	
29.	Dr. Saroj Sharma	M.Sc., Ph.D.	A.P., Govt. Girls College, Rajnandgaon	
30.	Dr. Anjali Soni	M.Sc., Ph.D.	A.P., Eng.College, Durg	
31.	Dr. Chanchal Dhiwar	M.Sc., Ph.D.	A.P., Garv Institute, Bhilai	
32.	Anita Bind	M.Sc.	Chemist, Central Ground Water Pollution Board, Raipur	
33.	Rajesh Sharma	M.Sc.	Lecturer, BSP	
34.	Harsha Dumbani	M.Sc.	Lecturer, BIMTS, Burhanpur, M.P.	
35.	Gulshan Thakur	M.Sc.	Technician, Forensic Lab, Raipur	
36.	Sheetal Thakur	M.Sc.	Lab Asst., Forensic Lab, Raipur	
37.	Monica Das	M.Sc.	Technician, Forensic Lab, Raipur	
38.	Temen Barle	M.Sc.	Technician, Water Dept.,	

Jagdalpur

32. Give details of student enrichment programmes (special lectures/ workshops/ seminar) with external experts. (2011 to 2015)

Year	S.No.	Date of Event	Theme/Title of the Event
2011-12	1.	11/10/2011- 12/10/2011	National Seminar on Recent Trends in Chemical Sciences and its Future Prospectus
	2.	16/02/2012	Invited Lecture by Prof. Gulshan Relhan from BARC, Mumbai (Analytical techniques)
	3.	08/09/2012	Invited talk by Dr. V.P. Maithil, Forensic Scientist Director, Chhattisgarh State
	4.	10/09/2012	Invited talk by Dr. R.N. Prasad, Professor, Chem. Dept., Rajasthan University, Jaipur
2012-13	1.	25/09/2013	Invited talk by Shri K. Subramanyam (Faculty Chemistry), Chief Conservative Forest and Narcotics and Controller Vyapam
		24/10/2013	Invited lecture by Dr. N.P. Singh, Allahabad University on Bent rule and Walsh Diagram (Group Theory)
2013-14	1.	21/01/ 2014- 22/01/ 2014	Instrument training workshop
	2.	29/02/2014	Awareness campaign on environment at village Purai
	3.	27/02/2014- 28/02/ 2014	Science Day Celebration
	4.	25/11/2014	Practical Work & Theory classes Guideline for students of 12 th class- Govt. Hr. Sec. School, Aheri (Dhamdha)
	5.	27/11/2014	B.Sc. Biochemistry Part- I, II and III visited ABIS Milk Industries Dongargaon, Rajnandgaon
	6.	01/12/2014	B.Sc. Industrial Chemistry Part- I, II and III visited supreme Industries (Naphthalene Extraction plant, Bhilai
2014-15	1.	21/02/2015	Environment Awareness Camp by M.Sc. students in college related to effect of toxic chemicals in Kodiagaon
	2.	27/02/2015- 28/02/ 2015	Science Day Celebration
	3.	11/02/2015	Invited Lecture by Dr. Rajnikant Sharma (Alumni member), Senior Scientist, CWC

		Nagpur on 'Big research- better writing'
4.	20/09/2015- 23 /09/ 2015	Greeting & Poster making competition
5.	24/09/2015	Inaugural function of Chemical Society
6.	24/09/2015	Lecture on Periodic properties by Dr. H.N. Dubey Dist. Co-ordinator Pt. Sundar Lal Sharma Vishwavidyalaya
7.	15/09/2015	"Ganesh Utsav" Awareness Programme on Ecofriendly Idol making by using Clay by A. Kashyap
8.	15/09/2015	'Swachata Abhiyan' Awareness programme conducted by students of M.Sc. in college
9.	17/10/2015	'Inspire' Scholarship Guideline Programme by 'Rahul' (Inspire Scholarship Holder) for School Children of 12 th class (Govt. Hr. Sec. School, Deepak Nagar)
10.	03/11/2015	'NET' Exam training for B.Sc. –III students by research scholars Mr.Deepesh & Miss Mitisha
11.	07/11/2015	Lecture by Prof. Dinesh Varshney, Devi Ahilya Bai University Indore on "Material Science"
12.	30/11/2015	Workshop (one day) on " Green Chemistry and Future Prospects"
13.	24/11/2015	Industrial visit to Kamal Solvent extraction plant by students of industrial chemistry (UG students)

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	<ol style="list-style-type: none"> 1. ICT techniques have been adopted for teaching . 2. Interactive sessions are organized regularly to motivate the students to clarify their doubts. 3. Certain topics in biochemistry are being taught using power point representation for effective teaching. 4. Advance practicals are being demonstrated /conducted using modern instrumental tecniques.

PG Programme	<p>1. ICT techniques adopted for effective teaching-learning by both students and faculty</p> <p>2. Interactive session students are encourage to interact with faculty members and subject experts by organizing guest lectures and onside training.</p> <p>3. Power point techniques are used by faculty for teaching and by students for seminar presentations.</p> <p>4. Advance practicals are conducted for students using sophisticated instruments like AAS, FTIR, GC and UV spectrophotometer etc.</p>
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34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The faculty members meet monthly once under the Chairmanship of Head of the Department to discuss & monitor the progress of teaching-learning process, students performance & organization of various activities according to academic calendar.

35. Highlight the participation of students and faculty in extension activities.

S.No.	Name of student	Activity	Remarks
1.	PG students	G.H.S. Environmental Awareness programme at School, Purai	January 2013 Water and soil conservation for sustainable development was emphasized. 207 students benefited
2.	PG students	Tobacco and plastic awareness within college campus	October 2013 The harmful effects of tobacco use on the health were conveyed. A message concerning excessive use of plastic leads to environmental problems was also given. More than 1000 students benefited

3.	PG students	INSPIRE scholarship guideline programme at Deepak Nagar school	December 2013 Information regarding INSPIRE scholarship was given. 25 students benefited
4.	PG students	Awareness programme at village Kodia for H.S. School	February 2014 Information regarding the ill effects and remedies to be adopted to minimize the effect of toxic chemicals were given. 213 students benefited
5.	PG students	Eco-friendly Idol making workshop	September 2015 Making of environmental friendly idol of lord Ganesha was demonstrated. 550 students benefited
6.	PG students	Beti Bachao Padhao, De-addiction programme	January 2016 The burning social issue of the present time affecting the society was discussed. 480 students benefited

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	Beyond syllabus scholarly activities
2015-16	Green Chemistry Workshop, International Conference, Activities under Chemical Society, Science Day Celebration activities, Invited Talk, Industrial Visits
2014-15	Activities under Chemical Society, Science Day Celebration activities, Invited Talk, Industrial Visit
2013-14	Activities under Chemical Society, Science Day Celebration activities, Invited Talk, Instrumentation Workshop, Invited Talk on Drugs and IPR, Activities under Chemical Society, Science Day Celebration, Industrial Visit
2012-13	Activities under Chemical Society, Science Day Celebration activities, Invited Talk on Forensic Science, Industrial Visit
2011-12	National Seminar, Industrial Visit, Activities under Chemical Society, Science Day Celebration activities, Invited Talk

37. State whether the programme/department is accredited/ graded by other agencies. Give details. Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department –

- Qualified & Committed faculty members
- Central instrumentation facility and Departmental Library
- Flexibility in curriculum designing
- Collaborative research work
- Availability of ICT tools for teaching- learning
- Faculty keen in fetching funds from various funding agency for research.
- Faculty: Fourteen qualified and committed faculty dedicated to provide quality education
- Instrument facility: Central instrumental facility funded by FIST-DST and CPE-UGC enables students to work on modern instruments like FTIR, AAS, GC etc. and also caters to the needs of nearby colleges
- Library: Departmental library having approximately 2262 books to update knowledge of the students
- Flexibility: Being autonomous college, the syllabus is modified suitably to cater to the demands of industries of the region
- Collaborative Research: To upgrade research skill and improve the quality of research, the faculty members undertake collaborative work with research institutes of repute
- ICT tool: ICT tools enable the faculty for effective teaching
- Availability of funds: By operating individual projects by faculty, the department is able to avail funds from other sources like DST, UGC, BARC, in addition to grants from state government and UGC which enhances the teaching and research capabilities of the department.

Weaknesses of the department -

- Lack of trained lab technicians & demonstrators Shortage of trained staff, not qualified to operate sophisticated instruments available in the department
- Student's not so competent and inappropriate student- teacher ratio at UG level
- Space constraints
- Inadequacy of support staff
- Lack of highly sophisticated instruments for high quality research work

Opportunities –

- Avenues for progress available
- Introduction of certificate courses
- Carry high impact Research work
- Signing MoU with Institution / Industry
- Ample funds from various agencies available

Challenges –

- Completion of the programmes with available facilities – paucity of funds for purchase of consumables
- Lack of communication skill among students
- Influx of academically weak students at entry level due to more inclination to professional courses
- Availability of readymade guides and bazaar notes in the market
- Financial constraints in the purchase of costly instruments & complex procurement/purchase procedure

39. Future plans of the department

- Provisions to be made for paid consultancy services and more extension activities to contribute to society
- Signing more MoUs to strengthen academia-industry relationship
- To strengthen research activity by procurement of some more advanced equipments
- To organize National/ International Seminars/Workshops/Conferences to update the knowledge in the field of Chemical Sciences
- Prepare students for NET/SLET and other competitive exams
- Categorize students as weak, brilliant and economical weaker and provisions of coaching to be conducted accordingly

Annexure: List of Publications

YEAR 2016

1. **Asthana, A.**, Verma, R., Singh, A.K., Susan, M.A.B.H., Glycine functionalized magnetic nano-particle entrapped calcium alginate beads : A promising adsorbant for removal of Cu (II) ions. *Journal of Environmental Engineering* 4, 1985-1995 (2016)
2. **Asthana, A. Upadhay K.**, Leuco crystal violet method for the determination of nicrorandil in bulk dosage *Karbala International Journal of Modern Science* 2(1), 1-9 (2016)
3. Pandey, G.P., **Singh, A.K.**, Prasad, S., Deshmukh, L., **Asthana, A., Mathew, S.B.**, Yoshida, M., Kinetic determination of trace amount of mercury (II) in environmental samples *Microchemical Journal* (2016).
4. **Tiwari, A.**, Barna Pal., A Brief Review on the Application of Gold Nanoparticles as Sensors in Multi Dimensional Aspects *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* 01-07, 1 (4) (2016).
5. Aleksandrova, M., Videkov, V., Ivanova, R., **Singh, A.K.**, Highly flexible, conductive and transparent PEDOT:PSS/Au/PEDOT:PSS multilayer electrode for optoelectronic devices, *Materials Letters* [174](#) (2016) 204–208.
6. Deo, S.R., **Singh, A.K.**, Deshmukh, L., Singh, N.P., Studies on Structural, Morphological and Optical Properties of Chemically Deposited CdS_{1-x}Se_x Thin Films, *Journal of Fluorescence*, 26(2016) 459-469.
7. Yadav, H., Bhoite, S.A., **Singh, A.K.**, Kinetic and mechanistic study of micellar effect of hydrolytic reaction of di-2-methoxy-4-nitroaniline phosphate, *Journal of Dispersion Science and Technology* DOI:10.1080/01932691.2016.1146614
8. Yadav, H., Bhoite, S.A., **Singh, A.K.**, Effect of Surfactants on Hydrolysis of Mono-N-ethyl-o-toluidine Phosphate, *Tenside Surfactants Detergents* 53,(2016) 182–194

YEAR 2015

9. **Asthana A., Singh, A.K.**, Pandey, G.P., Deshmukh, L., Prasad, S., Development of surfactant assisted kinetic method for trace determination of thallium in environmental samples. *Microchemical Journal*, 118, 150-157 (2015).
10. **Asthana A.**, Pandey, G.P., Deshmukh, L., **Singh, A.K.**, Determination of Dicofol in various environmental samples by spectrophotometric method, using chromogenic reagents. *Synthesis and Reactivity in Inorganic, Metal, Organic and Non Metal Chemistry* 45, 1199-(7) (2015).
11. **Tiwari, A.**, Kathane, P. Adsorption of Cu²⁺ ions onto Polyvinyl alcohol-Alginate bound Nano Magnetite Microspheres: A Kinetic and Thermodynamic Study *International Research Journal of Environment Sciences* 12-21, 4(4) (2015)

12. **Tiwari, A.**, Sharma N., Nanomagnetite-loaded poly (acrylamide-co-Itaconic acid) hydrogel as adsorbent for effective removal of Mn^{2+} from contaminated water *Desalination and Water Treatment* 1-18 (2015).
13. **Tiwari, A.**, Sharma N., Nano ZnO-loaded poly (acrylamide-co-Itaconic acid) hydrogel as adsorbent for effective removal of iron from contaminated water *Desalination and Water Treatment* 1-14 (2015)
14. **Singh, A.K.**, Sen, N., Chatterjee, S.K., Micelle catalyzed oxidative degradation of paracetamol by water soluble colloidal MnO_2 in acidic medium. *Tenside Surfactants Detergents* (2015).
15. Yadav, H., Bhoite, S.A., **Singh, A.K.**, Effect of Surfactants on Hydrolysis of Mono-N-ethyl-o-toluidine Phosphate, *Tenside Surfactants Detergents* (2015).
16. Thool, G.S., Arunkumari M, **Singh, A.K.**, Singh, S.P., Shape tunable synthesis of Eu and Sm doped ZnO microstructures: a morphological Evaluation, *Bulletin of Materials Science* 38, 1519-1525 (2015).
17. Thool, G.S., Sraveen, K., **Singh, A.K.**, Pal, U., Singh, S.P., Cowrie-Shell Architectures: Low Temperature Growth of Ni Doped CdS Film. *Journal of Alloys and Compounds* 649,553-558. (2015).
18. **Singh, A.K.**, Deo, S.R., Deshmukh, L., Susan, M.A.B.H., Metal chalcogenide nanocrystalline solid thin films. *Journal of Electronic Materials* 44, 4098-4127 (2015).
19. **Singh, A.K.**, Deo, S.R., Deshmukh, L., Paliwal, L.J., Singh, R.S., Studies on structural, morphological and optical behavior of chemically deposited Cd_{0.5}Pb_{0.5}S thin films. *Optik - International Journal for Light and Electron Optics* 126, 2311-2317 (2015).
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21. Khan, A.A.P., Khan, A., Asiri, A.M., **Singh, A.K.**, Homogenous catalysis of Ru(III) for the oxidation of Thiamine by ChloramineT in acidic medium. *International J. Electrochem. Sci.* 10, 759-774 (2015).
22. Shrivastava, R., Shrivastava, S., Singh, R.S., **Singh, A.K.**, Synthesis and Characterization of Cerium doped CdZnS nanoparticles. *Indian Journal of Physics* 89, 1153-1159 (2015).
23. Shrivastava, R., Shrivastava, S., Singh, R.S., **Singh, A.K.**, Characterization of CdZnS Thin Film Grown by Using Different Capping Agents. *Materials Research Express* 2, 03640146, 570-582 (2015).
24. Mehra, S., **Singh, A.K.**, Thool, G.S., Synthesis, morphological and Optical Properties of Nanocrystalline Solid Cu_xS Thin Films. *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry* (2015).
25. Sachdev, N., **Singh, A.K.**, Shrivastava, A., Katre, Y., Parwaz, A.A., Mechanistic study of novel oxidation of D-arabinose by N-bromophthalimide in presence of using micro-amount of chloro-complex of Ru(III) as a homogeneous catalyst. *Arabian Journal of Chemistry* (2015).

26. Pandey, G.P., **Singh, A.K.**, Deshmukh, L., Prasad, S., Development of surfactant assisted kinetic method for trace determination of thallium in environmental samples. *Microchemical Journal* 118, 150–157 (2015).
27. **Singh, A.K.**, Thool, G.S., Singh, S.P., Cu-implanted ZnO nanorods array film: An aqueous synthetic approach. *Journal of Alloys and Compounds* 618, 421–427 (2015).
28. **Rathod N.**, Taunk P., Synthesis and Optical Properties of Chemical Bath deposited ZnO thin film *Karbala International Journal of Modern Science* 1, 159-165 (2015).
29. **Rathod N.**, Taunk P., Synthesis and Structural Characterization of Lead Oxide *International Journal of Advance Research in Science & Eng.* 4 (1), 1-5 (2015)
30. **Rathod N.**, Taunk P., Optical Properties of Chemical Bath Deposited Pb(OH)₂ Thin Film *Advance Physics Letter.* 2 (4), 23-26 (2015).
31. **Rathod N.**, Taunk P., Refractive Index and Extinction Coefficient of Chemical Bath Deposited Pb(OH)₂ *Advance Physics Letter* 1. 2 (4), 19-22 (2015)

YEAR 2014

32. **Singh, A. K.** Pandey, G. P., Deshmukh, L., Prasad, S., Paliwal, L. J., **Asthana, A.** and **Mathew, S. B.** A novel and sensitive kinetic method for the determination of malathion using chromogenic reagent, *Microchemical Journal* 113, 83–89 (2014). ISSN : 0026-2665
33. **Singh, A. K.**, Thool, G. S., Bangal, P. R., Madhavendra, S. S. and Singh, S. P., Low temperature Mn doped ZnO nanorod array: Synthesis and its photoluminescence Behavior, *Industrial & Engineering Chemistry Research* 53, 9383–9390 (2014). ISSN : 0-939-204-56-844
34. Mehara, S. and **Singh, A. K.**, Synthesis and Optical properties of Nanocrystalline copper selenide thin films, *CSVТУ Research journal* 7, 86-91(2014). ISSN : 0974-1518
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42. **Tiwari, A.**, Bind, A. Adsorption of Pesticide (Captan) super Paramagnetic Poly (Styrene-co-acrylic acid) Hydrogel from Aqueous Solution using Batch and Column Studies, *Analytical Chemistry Letters* 4 (4) 267-278 (2014). ISSN : 2230-7532
43. **Tiwari, A.**, Sharma, N. Kinetics and Thermodynamic Studies of Zn²⁺ adsorption onto Super Paramagnetic Poly (Styrene-co-acrylic acid) Hydrogel, *Synthesis and Reactivity in Inorganic, Metal –Organic and Nano-Metal Chemistry* 46, 608-616 (2014). ISSN : 1553-3174
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45. Shrivastava, R., Singh, R. S. and **Singh, A. K.**, Optical Characterization of the (Cd-Zn)S:CdCl₂ Thin Film Deposited by CBD Method, *International Journal of Advancements in Research & Technology* 2, 152-158 (2013). ISSN : 1319-6103/2.5
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47. Deo, S. R. **Singh, A. K.**, Deshmukh, L. and Pandey, G. Effect of Annealing on Structural & Optical Behavior of Nanocrystalline Cd_{0.5}Zn_{0.5}S Thin Films *AIP Conference Proceedings* 1536, 251-252 (2013). ISSN : 0019 4522/0.85
48. Katre, Y., Goyal, N., Sharma, R. and **Singh, A. K.**, Influence of cetyltrimethylammonium bromide/sodium dodecylsulphate micelles on the oxidation of L-arginine by N-bromophthalimide in presence of HClO₄. *Indian Journal of Chemistry :A* 52A, 732-738 (2013). ISSN : 0922-6168/1.22
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- Journal of Dispersion Science and Technology* 34, 1421-1428 (2013). ISSN : 1319-6103
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Evaluative Report of the Department of Mathematics

The Department of Mathematics aims at not only making mathematics a popular and interesting subject but also generating skilled mathematical minds with all scientific aptitude. Recognized as highly reated department by UGC- CPE, the department coordinates activities like Regional Mathematical Olympiad, which is the first Phase of International Mathematical Olympiad. Moreover with the purpose of promoting merit and diligence in the students, the meritorious student of mathematics is honored with a silver medal. The department has a well equipped computational laboratory and publishes a magazine titled 'Ganit Suman'. 'Dr. Radha Krishan library ' is another feather in the cap of the department. The laudable feature of this library is that it is run by the contributions made by the P.G. students themselves.

1. Name of the Department & its year of establishment: **Mathematics , 1968.**
2. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc. in Mathematics
PG Courses	M.Sc. in Mathematics
Research degree Course	Ph.D.

3. Interdisplenary courses and departments involved : **NIL**

Course	Departments involved

4. Annual/ semester/choice based credit system

Under graduate course (B.Sc.) – Annual System
 Post graduate course (M.Sc.) – Semester System, Choice based credit system

5. Participation of the department in the courses offered by other departments
 - NIL

Name of course	Departments involved

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	01+01
Asst. Professors	04	03

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years Of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. M. A. Siddiqui	Ph.D.	Professor	Hydromechanics and Advanced Statistics	33 Years, 08 Month	03
Dr. Padmavati	Ph.D.	Professor	Hydromechanics and Special Functions	30 Years,	03
Prof. Vinod Sahu	M.Sc. (Perusing Ph.D.)	Asstt. Professor	Topology and Hydromechanics	22 Years, 05 Month	NIL
Dr. Rakesh Tiwari	Ph.D.	Asstt Professor	Hydromechanics and Special Functions	22 Years, 05 Month	02
Dr. Prachi Singh	Ph.D.	Asstt Professor	Hydromechanics and Special Functions	26 Years	NIL

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	43%
	Postgraduate	30%
2014-15	Undergraduate	43%
	Postgraduate	30%
2013-14	Undergraduate	30%
	Postgraduate	15%
2012-13	Undergraduate	30%
	Postgraduate	15%
2011-12	Undergraduate	NIL
	Postgraduate	NIL

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	108:1
	Postgraduate	15:1
2014-15	Undergraduate	106:1
	Postgraduate	15:1
2013-14	Undergraduate	100:1
	Postgraduate	15:1
2012-13	Undergraduate	97:1
	Postgraduate	14:1
2011-12	Undergraduate	95:1
	Postgraduate	15:1

10 Number of academic support staff (technical) and administrative staff: sanctioned and filled :

Sanctioned	Filled
01(Janbhagidari)	01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National)	Grants received
01	Dr. Rakesh Tiwari	UGC, CRO, BHOPAL	1,45,000 /-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received: **NIL**

Project	Name of Investigator	funding Agency (National/ International)	Grants received

13. Research facility / centre with
- State recognition -- Pt. Ravishankar Shukla University Raipur(C.G.)
 - National recognition – CV Raman University Bilaspur (C.G.)

14. Publications:
* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	04
International	15

List of published papers

2016

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Prof. V.K. Sahu	Approximation of a common minimum norm fixed point of a finite family of σ - asymptotically quasi nonexpensive mappings with applications	Journal of nonlinear science and applications		2016:9 3240- 3254

2	Prof. V.K. Sahu	Convergence results of implicit iterative scheme for two asymptotically quasi-I- nonexpensive mappings in Banach spaces	Glober J. Pure and Applied mathematics		2016:12 1723-1742
3	Prof. V.K. Sahu	Convergence results of iterative scheme for Asyptotically quasi-I- nonexpensive mappings in Banach spaces	Functional analysis and approximation Computation		2016:8(2) 1-12
4	Prof. V.K. Sahu	Convergence theorem for new iteration scheme and comparision results	Aligarh Bulletin of Mathematical Society	Accepted	

2015

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Dr.Padmavati	Fixed point theorem for cyclic contraction in B- metric spaces	Journal of nonlinear functional analysis	2025-532X	2015:5 01-22
2	Dr. Rakesh Tiwari	Generalization of fixed point theorem of Suzuki type in complete convex space	Journal of Advances in Mathematics		10(1),
3	Dr. Rakesh Tiwari	Generalization of fixed point theorem of Suzuki type in complete metric space	Journal of Progressive Research in Mathematics,		5(1)
4	Prof. V.K. Sahu	On the convergence results of an explicit iterative skim for two asymptotically quasi- I- nonexpensive mappings in Banach spaces	National Academic of Mathematics, India	Accepted	

2014

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Dr. M. A. Siddiqui	On a class of modified new Bernstein operators	Adv. Studies Contemp. Math.		24 (1)

2013

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Dr. Rakesh Tiwari	Common fixed points for weakly compatible mappings and application in dynamic programming	Italian J. of Pure and Applied Mathematics,	2239 - 0227	30

2012

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Dr. Prachi Singh	Fixed points for mappings satisfying occasionally weakly compatible condition	American Jr. of Mathematics and sciences		1(1), Pg.82-89
2	Dr. Rakesh Tiwari	Non commuting Mappings; Comparison with Examples	Asian J. Math. And Statistics	1944-7884	
3	Dr. Rakesh Tiwari	Common fixed point result for weakly compatible mappings	Boletin de la Asociacion Matematica Venezolana	1315-4125	XIX(1)

2011

S. No	Name	Topic	Journal	ISSN	Vol., Page
1	Dr. M. A. Siddiqui	1. A Voronovskaya type theorem on modified post widdier operators which preserve x^2 .	Korea math. Journal		51
2	Dr. M. A. Siddiqui	2. A Voronovskaya type theorem on modified Agradini operators which preserve x^2 .	International journal of applied mathematics and physics		3(1)
3	Dr. Padmavati	Iterated function system in D-metric space	App. Math. Sciences		5(35)
4	Dr. Prachi Singh	Common Fixed Points for Weakly Compatible Mappings	Jr. of fuzzy math	1937 – 1055	1(9)
5	Dr. Prachi Singh	An iterative scheme for gen. equilibrium problem. And fixed point problem of strict pseudo-contraction mappings	Applied Mathematics		02
6	Dr. Prachi Singh	Common fixed Point result in symmetric spaces	Amer. Jr. Math. and sciences		04
7	Dr. Rakesh Tiwari	Common Fixed Points for Weakly Compatible Mappings	International J. Math. Combinatronics	1937-1055	2
8	Dr. Rakesh Tiwari	Common fixed Point result in symmetric spaces	Novi Sad Journal of Mathematics	1450-5444	5(1)
9	Dr. Rakesh Tiwari	A Gregus type common fixed point theorem in normed spaces with Application	Banach Journal of Math. Anal.	1735-8787	
10	Vinod Sahu	Fixed points for mappings satisfying occasionally weakly comp. condition.	J. adv. research in pure math.		05
11	Vinod Sahu	A viscosity III step	Int. J. adv. Research in pure math.	1943-2380	71(3)

*Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.				
2	Books without ISBN No.		1. Co-ordinate Geometry of three Dimension & differential Equations	Dr. M.A. Siddiqui	Yugbodh Prakashan
			2. Discrete Mathematics	Dr. M.A. Siddiqui	Ram Prasad and Sons Agra
3	Edited books				
4	Chapters in edited books				
5	Monographs				

* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	
Scopus	13
Humanities International Complete	
Dare Database- International Social Sciences Directory	
EBSCO host	
Others	

* Citation Index – range / average:- upto 500

* SNIP:

* SJR:

* Impact factor – range / average :- 0 to 3.8

* h-index:- upto 13

15. Details of patents and income generated: NIL.

16. Areas of consultancy and income generated: NA

17. Faculty recharging strategies:

1. Group discussion among faculty members.

2. Solution of special problems of genius students of the department.

Programme	No. of Faculty benefited
Orientation/Refresher Course	
Seminar:-	
1. Faculties participated in different institute	04
Workshop :-	
1. Faculties participated in different institute	60
2. Workshop held at institute	56
Others	

18. Student projects

- a. Percentage of students who have done in-house projects including inter- departmental/programme **NIL**

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	
Undergraduate programme	

- b. Percentage of students doing projects in collaboration with industries/ institutes **NIL**

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	--
Undergraduate programme	--

19. Awards / recognitions received at the national and international level by

Faculty / Doctoral/ post doctoral fellows/ Students : **NIL**

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1	Summer Research Fellowship- 2011(SRF-11)- Dr. Rakesh Tiwari	Indian academy of sciences Bangalore	2011

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter- national Level	Topic/Subject	Funding Agency	Outst andin g partic ipants
Workshop	03 November 2015	National	Madhava Mathematics Competitions (NWMMC)	CGCOST	150
Workshop	28 December 2014	State	INMO Workshop	CGCOST	
Workshop	27 December 2014	National	National Workshop on “Madhava Mathematics Competitions” (NWMMC 14)	UGC, CGCOST, Dept.of higher education Raipur(C.G.)	
Workshop	27 December 2014	State	State level workshop on Mathematical Olympiad(SWMOC -14)	CGCOST	

Seminar	Oct. 26-27, 2012	National	The Rich Heritage of Mathematics in India” (NSRHMI - 12)	CGCOST
Workshop	Jan. 18-21, 2012	State	Mathematical Olympiad for Co-ordinators	CGCOST & NBHM (Mumbai)
Workshop	Oct. 11-13 2011	National	Recent Trends in Graph Theory & Cryptography (NWRGC 11),	U.G.C., CGCOST & Department of Higher Education Govt. of C. G

21. Student profile course-wise:

Year	Name of the Course	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
	(refer question no. 2)					
2015-16	UG		436	445	79.5	85.4
	PG	278	18	33	95	98
2014-15	UG		467	414	82	87
	PG	241	19	29	96	99
2013-14	UG		253	210	75	78
	PG	273	10	36	97	98
2012-13	UG		270	143	85	90
	PG	159	14	29	97	96
2011-12	UG		219	105	87	89
	PG	137	21	17	98	96

22. Diversity of Students

Name of the Course (refer question no. 2)	% of Students from the College	% of Students from the State	% of students from other States	% of students from other countries
2015-16	54.90 %	100 %	Nil	Nil
2014-15	57.44 %	100 %	Nil	Nil
2013-14	52.50 %	100 %	Nil	Nil
2012-13	44.18 %	100 %	Nil	Nil
2011-12	43.24 %	100 %	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services (PSC Higher education)	03
Defense Services	02
NET	
SLET	
GATE	

24. Student progression

Student progression	Percentage against enrolled
UG to PG	17.76%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	List available in placement cell of the institute
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment • Entrepreneurs 	

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	100%
from other universities within the State	Nil
from other universities from other States	

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – **01 (Ph.D.)**.

27. Present details about infrastructural facilities

a) Library:

No. of text books	1408
No. of reference books	243
No. of journals/magazines/proceedings	09
No. of e-books	NIL
Xerox copies of out of print/rare books	NIL
No. of CDs/DVDs	NIL
Lab. Manuals	NIL

b) Internet facilities for staff and students --YES.

c) Total number of class rooms - **02**

d) Class rooms with ICT facility: 01

e) Students' laboratories – 01

f) Research laboratories – 01

28. Number of students of the department getting financial assistance from College.

Yes. Scholarships are given as per rules & regulations of Govt. of CHHATISHGARH.

1-SC/ST/OBC & BPL SCHOLARSHIP

2- POOR BOYS FUND SCHOLARSHIP.

3-GETTING FINANCIAL ASSISTANT FROM JAN-UNAYAN SAMITI.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, assesment survey was done among faculty, students Alumni and Stake holders.

Process is on to open a new course (M. Sc. in Statistics).

30 a. Does the department obtain feedback from faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Since the faculty members are the elegant component of the department, therefore they provide the feedback as advice and acts accordingly for betterment for the department.

b.students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedback is taken by the IQAC from the students regularly. Accordingly necessary action is taken by the faculty members.

c.alumni and employers on the programmes and what is the response of the department to the same?

The department removed shortcomings so for observed by the alumni. Further the same is communicated to the Head of the institute for betterment of the department.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr. Padmavati	Proff. At Govt. VYTPG Auto College, Durg
2	Dr. Rakesh Tiwari	Proff. At Govt. VYTPG Auto College, Durg
3	Proff. V.K. Sahu	Proff. At Govt. VYTPG Auto College, Durg
4	Dr. Sanjay Sharma	Proff. At B.I.T. Durg
5	Sanjay Singh M.Sc. in Mathematics in 1995	Dy. SP Crime Branch at Raipur(C.G.)
6	Firoz Khan M.Sc. in Mathematics in 1999	Asstt. Professor at Govt. PG. College, Bemetara(C.G.)
7	Shail Sharma M.Sc. in Mathematics in 2005	Asstt. Professor at Govt. PG. College, Bemetara(C.G.)
8	Shashi Thakur M.Sc. in Mathematics in 2008	Asstt. Professor at Surajpur(C.G.)
9	Deepa Mann M.Sc. in Mathematics in 2010	Sub Inspector at Delhi

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Special Lecture on Application of Diff. equation in medical science Special Lecture on modeling	Dr.ZafarAhsan, Aligarh(U.P.). Dr. V.K. Pathak Dhamtari(C.G)
2014-15	Special Lecture on Applications of Wavelate	Prof. Aparajita Ojha, Director, IIIT, JABALPUR
2013-14	Special Lecture on Application of Analysis Special Lecture on Preparation on NET/SET Special Lecture on combinatories	Dr. U. Prajapati, Ahamdabad Dr. P. Jha , Raipur Dr. V. K. Pathak, Dhamtari
2012-13	Special Lecture on Preparation on NET	Dr. P. Jha , Raipur Dr. V. K. Pathak, Dhamtari
2011-12	Special Lecture on Graph Theory Special Lecture on Queen Theory	Dr. U. Prajapati, Ahamdabad Dr. V. K. Pathak, Dhamtari

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Interaction 2. Regular Class Test
PG Programme	1. Interaction 2. Seminars 3. PPT Presentation

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

By analyzing results and placements of students passing out

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
2015-16	02	M T T S Programme, Sponsored by National Board for Higher Mathematics (NBHM), Mumbai
2014-15	04	M T T S Programme
2013-14	02	M T T S Programme
2012-13	03	M T T S Programme
MTTS-	Mathematics Training and Talent Search Programme	

36. Give details of “beyond syllabus scholarly activities” of the department.

Every year the department celebrates Tree plantation in the month of July, Mathematics day in the last week of December, Science day in the month of February and International Woman’s day on 8 – 9 March. Mathematics society has organized ability test, poster competition and quiz competition in district and state level.

A special program was organized for deaf and dumb students to exhibit their special activities like painting and mathematics ability. With this program our students inspired them towards mathematics

Faculty members have attended a number of national seminars, conferences and workshops since last five years in order to update their knowledge in the field of mathematics. A number of invited talks were also organized for the benefit of faculty and students. Faculty members visited various colleges as resource persons to deliver lectures.

Educational tour for PG students is organized by department every year. Excursions to Hyderabad, Bhopal, Ujjain, Khairagarh etc. have exposed the students to new and advanced academic developments.

37. State whether the programme/department is accredited/ graded by other agencies. Give details. –Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- “Dr. Radhakrishnan Student’s Library” for Personality Development, Improvement of Mental and Physical Strength and Competitive Examination.
- Highly Rich Library for Research Scholars.

- Publication of Departmental Magazine “**Ganit Suman**” every year.
- “**LEELAVATI**” Library for UG students.
- Vibrant and talented students from the basic strength of the department.

Weaknesses of the department

- As per UGC norms The existing student – teacher ratio is not satisfactory.
- Lack of permanent technical staff .
- Students are from weak academic background.
- Students’ disinterest in the purchase of textbooks.

Opportunities

- The strength of UG and PG classes is good opportunity; students can be trained for various competitions.
- To develop analytical power among the students
- To provide guidance to the students for various competitive exams.
- To make the study of Mathematics interesting for the students.
- To motivate the students towards research in Math.
- To upgrade syllabus according to the needs of society.

Challenges

- To maintain the discipline of a large number of students is a difficult task but due to strong will power and strong dedication, we minimize this problem.
- To remove Math phobia from the students of other streams.
- To promote interdisciplinary research work.
- To train them for various competitive exams.
- To discourage the use of sub standard books.
- Enrolled students are generally from rural and poor economic background. To uplift them at par is a big challenge faced by the department.

39. Future plans of the department.

1. Introducing M.Sc. in Statistics is proposed.
2. Establishment of Mathematical Lab.
3. To establish MOU with recognized National and International Universities.
4. Inculcate research aptitude among students to meet national demand
5. Prepare students for NET/SLET and other competitive examination.
6. Categorize students as weak, brilliant and economical weaker and provisions for coaching to be conducted accordingly

Evaluative Report of the Department of Botany

The Department of Botany works with the mission of disseminating subject knowledge to students who otherwise have negligible exposure to scientific learning. In its effort to set high standard of holistic learning, the department organizes seminars, field trips and botanical excursions. Research is also one of the fronts in which the department excels. Equipped with hi-tech research lab, the major thrust areas of research activity involves environment and medicinal plants. Besides, the department endeavours to create an atmosphere that assists in creating job opportunities for the youth of this region.

1. Name of the Department & its year of establishment -- **Botany 1958**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc.
PG Courses	M Sc.
Research degree Course	Ph.D

3. Interdisciplinary courses and departments involved

Course	Departments involved
-	Nil

4. Annual/ semester/choice based credit system

Under graduate course – Annual System
 Post graduate course – Semester System

1. Participation of the department in the courses offered by other departments
-Nil
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	01
Asst. Professors	08	06

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

No.	Name	Qualification	Designation	Specialization	No. of Years of Experience in Teaching		No. of Ph.D. students guided for the last 3 years
					UG	PG	
1	Dr. Ranjana Shrivastava	M.Sc., Ph.D.	Professor and Head	Plant Pathology, Aeromicrobiology, Antimicrobial Activity and Phytochemical Analysis	30	24	05
2	L. K. Chelikswamy	M. Sc.	Assistant Professor	Plant pathology	39	39	retired 30.8.16
3	Gayatri Pandey	M.Sc.	Assistant Professor	Environmental microbiology	35	34	-
4	Dr. K.I. Toppo	M.Sc. Ph.D.	Assistant Professor	Plant pathology	28	28	-
5	Dr. G.S. Thakur	M.Sc. Ph.D.	Assistant Professor	Paleobotany	26	16	-
6	Dr. Shubha Gupta	M.Sc. Ph.D.	Assistant Professor	Plant pathology	22	13	-
7	Dr. Pragya Kulkarni	M.Sc. Ph.D.	Assistant Professor	Microbial Biotechnology	22	22	02
8	Dr. Shriram Kunjam	M.Sc. Ph.D.	Assistant Professor	Plant pathology Mycology	03	-	-

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	25%
	Postgraduate	25%
2014-15	Undergraduate	25%
	Postgraduate	25%
2013-14	Undergraduate	15%

2012-13	Postgraduate	15%
	Undergraduate	15%
2011-12	Postgraduate	15%
	Undergraduate	15%
	Postgraduate	15%

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	64:1
	Postgraduate	6:1
2014-15	Undergraduate	66:1
	Postgraduate	5:1
2013-14	Undergraduate	69:1
	Postgraduate	5:1
2012-13	Undergraduate	58:1
	Postgraduate	5:1
2011-12	Undergraduate	44:1
	Postgraduate	5:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	01	01
Lab Attendant	01	01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	of funding (National/ International)	Agency	Grants received
Antifungal studies of medicinal plants	Dr. K.I. Toppo	UGC		100000
Allelopathic effect of Parthenium L. on Agro crops of C.G.	Dr. G.S. Thakur	UGC		200000
Survey of Medicinal Plant of Dongargarh	Dr. Shriram Kunjam	UGC		300000

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received – Nil

Project	Name of Investigator	funding (National/ International)	Agency	Grants received
-				

13. Research facility / centre with

- state recognition -Yes
- national recognition -Yes
- international recognition -Nil

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals		
National	2011	5
	2012	5
	2013	2
	2014	4
	2015	6
International	2011	3
	2012	0
	2013	2
	2014	3
	2015	1

Publications Details

2016

1. Study of antimicrobial activity of *Lantana indica* Linn. Against some human pathogens and phytochemicals. European Journal of Pharmaceutical and Medical Research, 3(2), 301-308. (2016). Gupta, S., Toppo, K.I. and Kumar, A.

2015

1. Biodiversity of grass flora found in Govt. V.Y.T.PG. Autonomous College Campus Durg, district. *Vaniki Sandesh*, **6**, 23-26. (2015). Pandey, G.
2. Study of antimicrobial effect of *Chrysanthemum moritolium* Ramat. (Asteraceae) against some human pathogenic microorganisms. *Int. J. Pharmacol. Bio.Sci.* **9**(2), 179-188. (2015). Gupta, S. and Toppo, K.I.
3. Diversity of Actinomycetes in parboiled rice mill effluent. *IOSR Journal of Environmental Science, Toxicology and Food Technology*, **9**, (2015). Shrivastava, R.
4. Comparative study of application of chemical and biofertilizer for better growth of *Vitex*, a medicinal plant. *Indian Journal of Life Sciences*, **5**, 41-43. (2015). Shrivastava R., Dewangan, N. and Shrivastava, A.K.
5. Combined application of *Azotobacter* and urea to improve growth of rice (*Oryza sativum*). *Journal of Environmental Science, Toxicology and Food Technology*, 72-77. (2015). Shrivastava, R.
6. Co-inoculation of *Azotobacter* and *Pseudomonas* to improve growth of rice (*Oryza sativum*). *Society for promotion of tropical biodiversity, Jabalpur*, **23** (1) 98-101. (2015). Shrivastava, R.
7. Production, optimization and characterization of broad spectrum acteriocins from *Lactobacillus plantarum* DP2 and *Lactobacillus casai* DD1. *Research Journal Pharmaceutical Biological and Chemical Sciences*. (Accepted 22 jan 2015). (2015). Shrivastava, R.

2014

1. Antibacterial and Antifungal Activity of *Mougeotia*. *International Jr. of Basic and Applied Science Research*, **1**(1) 54-57. (2014). Shrivastava, R.
2. Effect of Organochlorine Pesticide on growth of Actinomycetiees. *Indian Journal of Scientific Research*, **4** (1), 191-195. (2014). Shrivastava, R.
3. Algal Biodiversity in Fresh water Reservoir of Durg. *Indian Journal of Scientific Research*, **4** (1), 121-126. (2014). Shrivastava, R.
4. Acute Human Lethal Toxicity Effects of Some Pesticide Families. *Jr. of Industrial Pollution Control*, **30**(2), 181-184. (2014). Shrivastava, R.
5. Isolation and Characterization of PGPR Rice rhizosphere for phosphate solubilization. *Jr. of Industrial Pollution Control*, **30**(2), 273-276. (2014). Shrivastava, R.
6. Phycochemical and antimicrobial study of vigorous fresh water alga *Mougeotia*. *Int. J. Curr. Microbiol. App. Sci.*, **3** (4), 1020-1024. (2014). Shrivastava, R.
7. Phycochemical Analysis of Two Members of Order – Zygnematales. *International journal of Geology, Agriculture and Environmental Sciences*, **2** (2), 27-30. (2014). Shrivastava, R.

2013

1. Antimicrobial activity of *Achyranthes aspera* against Some Human Pathogenic Bacteria and Fungus. *Int. jour of pharmacology and biological sciences*, **7**(2), 43-54. (2013). Gupta, S. and Toppo, K.I.
2. Antimicrobial activity of *Parthenium hysterophorus* Linn. And *Moringa oleifera* Lam. against some human pathogenic bacteria and fungus. *Journal of Herbal Medicine and Toxicology*, **7**(1), 89-95. (2013). Gupta, S. and Toppo, K.I.
3. Antimicrobial Activity of *Sphagneticola trilobata* (L.) Pruski, against some human pathogenic bacteria and fungi. *The Bioscan*, **8**(2), 695-700. (2013). Gupta, S. and Toppo, K.I.
4. Ethnobotanical Plant Diversity in Mainpur Block, District Gariaband, Chhattisgarh, India. *International Journal of Innovative Research and Studies*, **2** (6), 11-12. (2013). Shrivastava, R.

2012

1. To analyse the water sample of pond located near Nandini mines in Durg district Chhattisgarh, India. *Journal of Pharmaceutical and Biomedical Sciences*, **22** (19), 1-4. (2012). Verma, S. and Das, S.
2. Seasonal Variation of Algal Biodiversity from the Three Fresh Water Ponds of Bhilai, India. *Current issues of conservation and wise use of wetlands in North Eastern Region of India*, 89-95. (2012). Shrivastava, R.
3. Studies of Airomycoflora of District and Session Court of Durg, Chhattisgarh. *Journal of Biological Innovation*, **2** (4), 146-151. (2012). Shrivastava, R.
4. Ethnomedicinal plants and its effect on public health. *Journal of Pharmaceutical and Biomedical Sciences*, **21** (22), 1-4. (2012). Shrivastava, R.
5. Isolation and Characterization of plant growth promoting Rhizobacteria associated with *Vitex negundo*. *Life Science Bulletin*, **9** (1), 197-199. (2012). Shrivastava, R.

2011

1. Ethnomedicinal; importance of some trees of Barnawapara Sanctuary of Chhattisgarh, India. *Life science Bulletin*, **9**(1), 197-199. (2011). Toppo., K.I., Chelikswamy, L.K. and Gupta, S.
2. Biodiversity and Biochemical Properties of Genus *Micromonospora* Recovered From Gelatin Factory. *Proceedings of National Conference on "Climatic change & its Effect on Biodiversity"*. (2011). Shrivastava, R.
3. Physiochemical Characterization in two Ponds of Dongargarh City under biotic stress. *Proceedings of National Conference on "Climatic change & its Effect on Biodiversity"* (2011). Shrivastava, R.
4. Aeromycofloral Diversity of St. Thomas College, Bhilai. *Proceedings of National Conference on "Climatic change & its Effect on Biodiversity"* (2011). Shrivastava, R.

5. Ecological Status of Medicinal Plants of Durg Nagar Nigam Area; Chhattisgarh. *Advances in Plant Sciences*, **24** (II), 621-632. (2011). Shrivastava, R.
6. Detection of seed Borne Fungi in Soybean by Different Incubation Methods. *International Research Journal Lab to Land*, **3**(12), 519-521. (2011). Shrivastava, R.
7. Water Quality Assessment of Ground water resources in Dongargarh City (Chhattisgarh) Based on WQI. *International Research Journal Lab to Land*, **3** (9), 56-58. (2011). Shrivastava, R.
8. Floristic diversity of Dongargarh hill range, Chhattisgarh. *International Research Journal Lab to Land*, **3** (9), 522-526. (2011). Shrivastava, R.

- * Books with ISBN numbers with details of publishers - nil
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	
Humanities International Complete	
Dare Database- International Social Sciences Directory	
EBSCO host	
Others	

* Citation Index – range / average

* SNIP

* SJR

* Impact factor – range / average ... 1.823 to 4.6/3.2

* h-index

15. Details of patents and income generated – NIL

16. Areas of consultancy and income generated- NIL

Consultancy Service	Income generated
-	-

17. Faculty recharging strategies :Workshop, seminar, lectures by eminent speakers

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	06
Workshop	06
Others	-

- 18 Student projects :

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme B.Sc.	80%

- b. Percentage of students doing projects in collaboration with industries institutes – NIL

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	-
Undergraduate programme	-

- 19 Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students – Nil

- 20 Seminars/Conferences/Workshops organized and the source of funding (National /International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter- national Level	Topic/Subject	Funding Agency	Outstandi ng participa nts
Seminar	26 th & 27 th Nov 2011	National	Recent Trends in Plant and Microbial Sciences	UGC Autonomou s Fund	Dr. R. P. Sinha (BHU) Dr. S.K. Chile (Seoni M.P.) Dr. S.B. Nandeshwar (Nagpur) Dr. D.K. Shrivastava (Bilaspur)

21 Student profile course-wise:

Name of the course	Applications	Selected		Pass percentage	
(refer question no. 2)	received	Male	Female	Male	Femal e
B.Sc.	870	230	305		
M.Sc. Botany	208	11	29	100%	100%

22 Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other state	% of students from other countries
B.Sc.	-	100%	-	-
M.Sc.	55%	100%	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	-
Defense Services	-
NET	-
SLET	-
GATE	-

24. Student progression

Student progression	Percentage against enrolled
UG to PG	17%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Campus selection	-
Other than campus recruitment	20%
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	60%
from other universities within the State	nil
from other universities from other States	40%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

27. Present details about infrastructural facilities

a) Library

No. of text books	1225
No. of reference books	985
No. of journals/magazines/proceedings	4
No. of e-books	Nil
Xerox copies of out of print/rare books	5
No. of CDs/DVDs	03
Lab. Manuals	03
Donated books	153

b) Internet facilities for staff and students - **Yes**

c) Total number of class rooms - **02**

d) Class rooms with ICT facility - **NIL**

e) Students' laboratories - **01**

f) Research laboratories - **01**

28. Number of students of the department getting financial assistance from College.
As per the norms of the Chhattisgarh government the students get financial assistance.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology - -None
30. Does the department obtain feedback from
- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**
Regular meeting of the department is held and feedback is taken and changes made accordingly.
 - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**
Through questionnaire provided by IQAC feedback is taken and feasible changes are made.
 - alumni and employers on the programmes and what is the response of the department to the same?**
The department makes profitable use of the suggestions given by the alumni.
31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	H.L. Ratre	I.F.S. DFO Mahasamund
2	Dr. Satish Sen 1997	Asst. Prof.
3	Dr. Bhawna Pandey 1989	Asst. Prof. Bhilai Mahila Mahavidyalaya
4	Dr. D.S. Chandel	A.G.M. Bhilai Steel Plant
5	Dr. M.L. Prasuna	Asst. Prof. Govt. Girls College Durg
6	E.V.S. Murthy	Manager – Oriental bank of commerece
7	Parmanand Agarwal	Govt. Higher Secondary School Durg
8	Swapna Mukharjee	Lecturer BSP School Bhilai
9	Ramnarayan Pandey	Research Associate Bamboo Project Noida
10	Dr. Gunwant Chandrol	Asst Prof. Kalyan College Bhilai

32 Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Lecture/Workshop/Seminar	Special	Name of Expert
2015-16	Biodiversity 08/02/2016		Dr. Veena Pani Dubey (Prof. & Head dept of Botany C.M.D. College Bilaspur)
	DNA Technology, Cloning, DNA microarray, DNA fingerprinting 29/1/2016		Dr. D.K. Shrivastava (Science College Bilaspur)
	Cytogenetics 4/09/2015		Dr. N. B. Singh (Science College Raipur)
	Techniques in tissue culture 4/09/2015		Dr. Rupinder Diwan (Science College Raipur)
2014-15	Photobiology 16/10/2014		Prof. P.C. Panda (Retired Prof. Durg)
	About Medicinal Plants 6/09/2014		Prof. Utkarsh Ghate (Scientist, UNDP, Green medicine/village herbs)
	Melatonin 12/08/2014		Dr. Suman Kumar Maitra (Prof. of Zoology Visva Bharti University)
2012-13	Genetics 23/01/2013		Dr. V. K. Kanoongo (Science College Raipur)
	23/01/2013		Dr. N. B. Singh (Science College Raipur)
	Biodiversity and its conservation 23/01/2013		Dr. Veena Pani Dubey (C.M.D. College Bilaspur)

33 List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	Classroom teaching group discussions charts models lab activities Assignments Projects Field work
PG Programme	Classroom teaching PowerPoint presentations group discussions charts models lab activities Assignments Field work

34 How does the department ensure that programme objectives arconstantly met and learning outcomes monitored?

Through internal assessment, classroom seminar, project , class test and group discussion, the programme objectives are met and learning outcomes monitore

35 Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
To study Mushroom culture 25/1/2016	Faculty – 03 Students – 25	Visited <i>Krishi Vigyan Kendra Anjora</i> Students learnt about mushroom cultivation and its advantage.
To study local vegetation 9/1/2016	Faculty – 05 Students – 25	Visited <i>Maitri Bagh</i> – collected Plant variety of aquatic angiosperms , aquatic ferns and some climbers. Observed female cone of Cycas (Gymnosperms).
To study Hill Vegetation 18/11/2014	Faculty – 05 Students – 40	<i>Jatmai Ghatarani</i> Specimens of Plant variety were collected

1. To study the plant diversity of Vishakhapatnam (seashore vegetation) 2. To study the marine algae of Yarada beach (Vishakhapatnam) 22/02/2014	Faculty – 05 Students – 32	Vishakhapatnam To study the medicinal plants and plant biodiversity
To study the seashore vegetation of Chilka lake February 2011	Faculty – 04 Students – 33	Visited <i>Chilka</i> Lake Orissa – Study of floral diversity in different natural habitats was done by the students

36. Give details of “beyond syllabus scholarly activities” of the department. Nil

Year	beyond syllabus scholarly activities
2016	Lecture on Malnutrition, Environment, Hygiene Medicinal plant uses cleanliness
2016	Lecture on Environment, Global Warming, Plant Conservation, Cleanliness and hygiene

37. State whether the programme/department is accredited/ graded by other agencies. Give details. - Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Qualified and experienced faculty with more than twenty years of teaching experience
- Rich library
- Research oriented faculty and students
- Satisfactory infrastructure

Weaknesses of the department

- No separate laboratory for PG and research
- Insufficient faculty
- Lack of instruments for advanced research.
- Lack of Tissue Culture laboratory for PG students.

Opportunities

- Scope for research due to adjoining rural areas.
- Environmental awareness and conservation
- Botany being a multidimensional discipline provides lucrative job opportunities for students .

Challenges

- Save global environment
- Conservation of plant resources
- Ecological balance
- Creating space to display Botanical specimens.
- Establishment of independent research laboratory.

39. Future plans of the department.

- To develop Tissue Culture Lab.
- To develop Medicinal Plant Garden.
- To develop Botanical Museum.
- Development and Maintenance of infrastructure.

Papers in National and International Journals

Shrivastava, R. Ethanomedicinal plants and its effect on public health *Journal of pharmaceutical and Biomedical Sciences*. 21 (22), 1-4 (2012). ISSN: 2230-7885

Shrivastava, R. Studies of Airomycoflora of District and Session Court of Durg, Chhattisgarh *Journal of Biological Innovation* 2(4), 146-151 (2012). ISSN: 2277-8330

Shrivastava, R. Isolation and Characterization of plant growth promoting Rhizobacteria associated with *Vitex negundo* *Life Science Bulletin* 9(1), 197-199 (2012). ISSN: 0973-5453

Shrivastava, R. Ethanobotanical Plant Diversity in Mainpur Block, District Gariaband, Chhattisgarh, India. *International Journal of Innovative Research and Studies* 2 (6), 11-12 (2013). ISSN: 2319-9725

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Evaluative Report of the Department of Zoology

1. Name of the Department & its year of establishment-- **Zoology, 1965**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B. Sc.
PG Courses	M. Sc.
Research degree Course	Ph. D.

3. Interdisciplinary courses and departments involved

Course	Departments involved
Nil	Nil

4. Annual/ semester/choice based credit system

Under graduate course (**B. Sc.....**) – Annual System
 Post graduate course (...**M. Sc.....**) – Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
Nil	Nil
Nil	Nil
Nil	Nil

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	01
Assistant Professors	08	04

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. guided for the last 4 years
Dr. K Choubey	M.Sc.Ph. D	Professor	Ichthyology	30	06
Dr. U. Sahu	M.Sc.Ph. D	Assit Professor	Cell-Biology	23	Nil
Dr. D. Minz	M.Sc.Ph. D	Assit Professor	Ichthyology	26	Nil
Dr. N. Agrawal;	M.Sc.Ph. D	Assit Professor	Medical Microbiology	26	Nil

8. Percentage of classes taken by temporary faculty– programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	50%
	Postgraduate	50%
2014-15	Undergraduate	50%
	Postgraduate	50%
2013-14	Undergraduate	50%
	Postgraduate	50%
2012-13	Undergraduate	50%
	Postgraduate	50%
2011-12	Undergraduate	50%
	Postgraduate	50%

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	85:1
	Postgraduate	6:1
2014-15	Undergraduate	80:1
	Postgraduate	4:1
2013-14	Undergraduate	82:1
	Postgraduate	4:1
2012-13	Undergraduate	80:1
	Postgraduate	4:1
2011-12	Undergraduate	80:1
	Postgraduate	4:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	02	01
Lab Attendant	03	03

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. -Nil

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Nil	Nil	Nil	Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Nil	Nil	Nil	Nil

13. Research facility / centre with

- State recognition ... **Yes**
- National recognition ... Nil
- International recognition ... Nil

14. Publications :

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	21
International	26

* Books with ISBN numbers with details of publishers : **Nil**

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	--	-	-	-
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : **Nil**

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

*Citation Index – range / average-
 *SNIP-
 *SJR-
 *Impact factor – range / average ----2.5-----.
 *h-index

15.Details of patents and income generated --- **Nil**.....

16.Areas of consultancy and income generated : Nil

17. Faculty recharging strategies

All member attended National and International seminar and conferences.

Programme	No. of Faculty benefited
Orientation/Refresher Course	Nil
Seminar	04
Workshop	04
Others	Nil

18 Student projects

Year	No of projects
2013-2014	18
2014-2015	18
2015-2016	18

a.Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme	Nil

b.Percentage of students doing projects in collaboration with industries/institutes : Nil

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	-
Undergraduate programme	-

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students : Nil

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1	–	–	–
2	–	–	–
3	–	–	–

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

Seminar / Workshop	date	National / International Level	Topic/Subject	Funding Agency	Outstanding participants
Conference	11-12 Oct. 2011	National	Bio-resource-it's implication, alteration and management for the welfare of living kingdom	UGC and CGCOST	Dr. Belsare Dr. A.K.Pandey
Conference	7-8 Feb. 2015	National	Prospects of Life Science for human welfare with special reference to Chhattisgarh.	UGC and CGCOST	Dr. A.K. Pati Dr. Bozch

21. Student profile course-wise:

Name of the course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc	1500	436	445	33%	35%
M.Sc.	200	9	10	95%	95%
Ph. D.	12	Nil	01	0%	10%

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from the other state	% of students from the other countries
BSc.	98%	98%	2%	Nil
M.Sc.	50%	100%	Nil	Nil
Ph. D.	50%	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	Nil
Defense Services	Nil
NET	01
SLET	01
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	5%
PG to M.Phil.	Nil
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	Nil
Employed	Nil
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment • Entrepreneurs 	 2% Nil

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	Nil
from other universities within the State	25%
from other universities from other States	75%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

01 - Dr. D. Minz

27 Present details about infrastructural facilities

a) Library

No. of text books	698
No. of reference books	25
No. of journals/magazines/proceedings	–
No. of e-books	Nil
Xerox copies of out of print/rare books	04
No. of CDs/DVDs	Nil
Lab. Manuals	Nil

b) Internet facilities for staff and students : Yes

c) Total number of class rooms : 02

d) Class rooms with ICT facility:....Nil....

e) Students' laboratories : 01

f) Research laboratories : 01

28. Number of students of the department getting financial assistance from College.

- Students are getting financial assistance as per govt.norms

29. Was any need assessment exercise undertaken before the development of new

program(s)? If so, give the methodology.

- Suggestion from students, parents and faculty are invited and changes are done accordingly.

30. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Yes, feedback is taken from the faculty and changes are made accordingly.
 - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Yes and on the basis of the students' feedback taken by IQAC changes are implemented.
 - alumni and employers on the programmes and what is the response of the department to the same?
The department makes a profitable use of the experience of alumni and employers.
31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr. D. Kumar	Rtd.Principal
2	D. K. Agrawal	Rtd.Principal
3	Dr. Nisreen Husain	Assistant Professor
4	Chunnilal Tandon	Assistant Registrar
5	Dr. Alka Mishra	Assistant Professor
6	Dr. Sonia Bajaj	Assistant Professor
7	Dr. Shoeb Siddique	Assistant Professor

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	06 guest lectures	Dr. Seema Gupta Prof.&HOD Govt. Science college ,Raipur, Dr. V.P. Roy,HOD , Mats University ,Raipur, Dr. Sudha Chouhan Retired Deputy Director,ICMR,Delhi Jasmeet Singh Prof., Ms. Radhika Sainy Secretary , Dr. Ajit Hundait Prof. Govt. College,saraipali
2014-15	02 guest lectures	Dr. H. N. Sharma Fisheries manager fish form salud,

		Dr.Ashish Jha Asst.Prof.Science college Aamgaon Gondiya.
2013-14	01 guest lectures	Dr. H. N.Sharma Fisheries manager fish form salud,
2012-13	01 guest lectures	Dr.N. Ghosh Retired prof.Govt.V.Y.T.P.G.Auto.college, Durg
2011-12	03 guest lectures	Dr.S.K.Dutta Prof. of Zoology Jammu University, Dr. R. K.Pradhan Professor, Pt.R.S.U.Raipur, Dr.M.Roy Asst.Prof. Govt.College Utai

33.List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1 Black board teaching 2 Group Discussion 3 Written and Oral tests.
PG Programme	1 Black board teaching 2 Group Discussion 3 Written and Oral test 4 Power point presentation 5 Through ICT .

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

-Through internal assessment, class test, seminar, project work & group discussion the programme objectives are monitored and met with.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Selud Fish Farm	15	Educational tour
Maitri Bag	30	Made people aware about wild life conservation
Govt. Middle School Potia Kala	35	Health, hygiene , nutrition and cleanliness awareness. Organised Blood Group detection camp

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Organised special practical classes for the students of Sun Shine school .
2014-15	Training for school teachers
2013-14	–
2012-13	–
2011-12	–

37. State whether the programme/department is accredited/ graded by other agencies. Give details.

Recognized as Highly Rated Department under CPE Programme.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Highly qualified and experienced faculty.
- Rich library.
- Research oriented atmosphere.
- Develops entrepreneurial qualities in the students by giving them training in fish farming.
- Serving society by organizing awareness camps for villagers, farmers and school students.

Weaknesses of the department

- Insufficient regular staff -50% regular posts being vacant.
- Need to improve infrastructure.
- Lesser job opportunities.
- Most of the students are from weak socio / academic background.

Opportunities

- Development of entrepreneurial qualities in students by training them in fish farming.
- Scope for interdisciplinary studies.
- As a subject of Applied Sciences the department provides the student an opportunity to serve the society.
- Availability of modern equipment provides good opportunity for extensive research.

Challenges

- To create job opportunities for students.
- To keep the students away from sub standard study material.
- To promote society oriented research.
- To spread awareness towards wild life conservation.

39. Future plans of the department.

1. Promoting research projects.
2. Establishment of Smart class room for PG students
3. Establishment of separate lab for PG students.
4. Establishment of a new instrumentation room.

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9. SanjayPrasad Gupta^{1*},D. N. Sharma^{**},G. K. Chandrol^{***}Divya Kumudini

Minj****(2016) microbial deterioration of sandstone structure and their chemical preservation with special reference to of kala dera-i temple at manwal(jammu & kashmir STATE, INDIA) (IJREAS) online at <http://euroasiapub.org/journals.php> Vol. 6 Issue 7, July 2016, pp. 79~85 ISSN(O): 2249-3905, ISSN(P) : 2349-6525 | Impact Factor: 6.573 | Thomson Reuters ID: L-5236-2015

Publications with Students - 09

1. Neeru Agrawal, Sunil Gurla and Khushboo Rani (2014). Carbohydrates in different types of Fruits, Periodic Research, ISSN No. 2231-0045 EISSN-2349-9435, Vol.III (II) pp112-114.
2. Neeru Agrawal, Padmavati Hidame and Sunil Gurla (2014). Estimation of total carbohydrate in flour of different types of grain, IJBAT, Vol.II (III) pp 36-40
3. Neeru Agrawal, Divya K. Minj & Bhoj Kumar Mankar (2015) Effect of pH and moisture content on growth of ant colony at different vegetation sites. IJBAT, Special issue (6) oct. 2015. pp 79-81.
4. Neeru Agrawal, Divya K. Minj & Khushbu Rani (2015) Estimation of total carbohydrate present in dry fruits. IOSR-JESTFT.
5. Usha Sahu, Umashanker and Damendra (2014). Species Diversity of Butterflies in Durg-Bhilai City Area. III(I), pp 113-116.
6. Usha Sahu, Kanti Choubey and Gangadhar (2014). Behavioral Changes in *Clarias batrachus* due to Fluoridated Toothpaste, Shrinkhala, II(II), pp 1-2.
7. Usha Sahu, M. Roy, Monika and Rajkiran (2015). Environmental Awareness Among Undergraduate Students in Rural Area, IOSR Journal of Environmental Science, Toxicology and Food Technology, pp 23-28.
8. Usha Sahu, M. Roy, Monika and Rajkiran (2015). Environmental Awareness Among Undergraduate Students in Rural and Urban Area, Remarking, II(V),

pp 10-13.

9. Usha Sahu, M. Roy, Rajkiran, Monika and Rupesh (2015). Environmental Awareness Among PG Students, International Journal of Pharmacology and Biological Sciences, 9 (1&2), pp 65-70.

Evaluative Report of the Department of Geology

Department of Geology, identified as 'Highly Rated and Star Performing Department' by UGC, has crossed many milestones on the path of excellence. Though a small department in terms of number of faculty members and number of students, it has produced many postgraduates who are glorifying the name of the department as well as the Institute. One of the staff members, Dr. Prashant Shrivastava is a recipient of prestigious Fulbright visiting lecturer fellowship. Many of the students of this department are serving the nation in various capacities such as geologist, academician and entrepreneur. Department of Geology is a recognized research center for doctoral research. The Department strives to develop in each student, enthusiasm and the necessary skills to become a professional geoscientists.

1. Name of the Department & its year of establishment - **GEOLOGY , 1982**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc.
PG Courses	M.Sc.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved

Course	Departments involved
B.Sc.	Geology, Physics, Chemistry, Mathematics, Zoology

4. Annual/ semester/choice based credit system

Under graduate course – Annual System
Post graduate course – Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
--	--

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	Nil	Nil
Asstt. Professor	02	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Students guided for the last 4 years
Dr. S.D.Deshmukh	M.Tech. Ph.D.	Assistant Professor	Petrology and Geochemistry	23	Nil
Dr. P.K. Shrivastava	M.Sc., M.Phil. Ph.D.	Assistant Professor	Hydrogeology Environmental Geology	23	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	30%
	Postgraduate	30%
2014-15	Undergraduate	30%
	Postgraduate	30%
2013-14	Undergraduate	30%
	Postgraduate	30%
2012-13	Undergraduate	30%
	Postgraduate	30%
2011-12	Undergraduate	30%
	Postgraduate	30%

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	82:1
	Postgraduate	8:1
2014-15	Undergraduate	78:1
	Postgraduate	6:1
2013-14	Undergraduate	65:1
	Postgraduate	7:1
2012-13	Undergraduate	57:1
	Postgraduate	10:1
2011-12	Undergraduate	48:1
	Postgraduate	6:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	01	01
Lab Attendant	Nil	Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/International)	Grants received
Nil	Nil	Nil	Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Project	Name of Investigator	of funding Agency (National/International)	Grants received
An integrated study of dyke swarms and Deccan Trap at Chhota Udaipur, Lower Narmada Valley	Dr. K.R. Hari	National (D.S.T.)	2423000

13. Research facility / centre with

- State recognition Yes.....
- National recognition Yes.....
- International recognition Yes...

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	11
International	02

DEPARTMENT OF GEOLOGY LIST OF PUBLICATIONS (2011-2015)

1. **Shrivastava P.K. and Deshmukh S.D. (2011)** Applications of G.I.S. in geosciences. *Proceedings of National seminar on emerging trends in scientific research, October, 2011, Durg(C.G.) pp216-221.* ISBN-978-93-81583-39-5.
2. **Diwan P. and Deshmukh S.D.(2011)** Emerging trends in geochemical analytical instrumentation techniques : An overview . *Proceedings of National seminar on emerging trends in scientific research, October,2011, Durg(C.G.) pp 221-224.* ISBN-978-93-81583-39-5.
3. **Hari K.R. and Deshmukh S. D. (2011)** An interdisciplinary approach in geoscientific research : The need of the hour. *Proceedings of National seminar on emerging trends in scientific research, October,2011, Durg(C.G.) pp 213-215.* ISBN-978-93-81583-39-5.
4. **Shrivastava P.K.** (2012), An Integrated Approach for Ground Water Quality Study in Durg District Chhattisgarh, India, *International Journal of Environmental Engineering and Management. Special Issue Volume 3, No. 5, p327-329.*
5. **Tembhare B., Shrivastava PK, Deshmukh S D(2013),** Stress Management : An important aspect of Education for women, *Social science Reporter Vol.3, Issue 1, pp.27-29.*

6. **Deshmukh S.D.**(2013) Environmental education :The need of the hour. *Environmental Pollution Control journal*,vol.17, No. 1, pp 67-68. ISSN 0972-1541
7. Vansutre S. and **Deshmukh S.D.**(2013)Biotechnology: a paramount tool in the strategy for treatment of waste water. *Environmental Pollution Control journal*,vol.16, No. 5, pp 69-72.ISSN 0972-1541
8. **Deshmukh S.D** (2013). Sustainable development in mining sector. *Environmental Pollution Control journal*,vol.16, No. 4, pp 45-47. ISSN 0972-1541
9. **Shrivastava P.K.** (2014), Impact of Agrochemicals on Ground water, Published in a Book entitled “ Watershed Management for Sustainable Development” Excellent Publishing House, New Delhi, pp.52-54.
10. **Shrivastava P.K.** (2014), Study of Pollutants present in Ground water- A case study of Patan Block, Durg District, Chhattisgarh, India, Published in a book entitled “ Energy Technology & Ecological Concerns : A Contemporary Approach, Gyan Bindu Publications, New Delhi, pp. 135-137.
11. **Shrivastava P.K.** (2014),Impact of Climate Change on water Resources of India, Published in a book entitled ‘ Energy Techonologies, Climate Change and Environmental Sustainability : Innovative perspective. Excellent Publishing House, New Delhi, pp 121-127.
12. **Shrivastava P.K. and Deshmukh S.D.** (2014), Chhattisgarh State: A review of impact of exploitation of mineral resources on the environment pp65-69. Published in a book entitled “Recent advancements in mineral and water resources” Excellent Publishing House, New Delhi ISBN 978-93-84935-84-9
13. Vansutre S., **Deshmukh S.D.** and Hari K.R.(2014).Past, present and future of Indrvati river capture : A geomorphological investigation. IOSR Journal of Applied Geology and Geophysics, vol.02, issue 05, pp1-5. ISSN 2321-0982.
14. **Deshmukh S.D.**,Verma,A.,Tiwari P. and Sharma, A (2014)Possibility of usage of age, B.M.I. and B.S.A. as predictors of morningness-eveningness in human beings. International Journal of Recent Scientific Research Vol. 5, Issue,7, pp.1322-1326,July, 2014 ISSN 0976-3031
15. **Deshmukh S. D., Hari K. R. and Diwan P.**(2015) Fluid Inclusion Studies of Auriferous Quartz Veins from Sonakhan Greenstone Belt, Central India. SGAT Bulletin Vol. 16, No.2 (2015)pp33-38. ISSN 0972-2173

* Books with ISBN numbers with details of publishers
Title of the book

No.	Specification	ISB N No	Title	Author	Publishers
1	Books with ISBN No.	Nil	Nil	Nil	Nil
2	Books without ISBN No.	Nil	Nil	Nil	Nil
3	Edited books	Nil	Nil	Nil	Nil
4	Chapters in edited books	02	Impact of Agrochemicals on Ground water, Published in a Book entitled “ Watershed Management for Sustainable Development ” (2014),pp.52-54. ISBN 978-93-83083-82-4281 Chhattisgarh State : A review of impact of exploitation of mineral resources on the environment pp65-69 ISBN 978-93-84935-84-9	P.K. Shrivasta va P.K. Shrivasta va and S.D.Desh mukh	Excellent Publishing House, New Delhi. Excellent Publishing House, New Delhi.
5	Monographs	Nil	Nil	Nil	Nil

* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	–
Scopus	–
Humanities International Complete	–
Dare Database- International Social Sciences Directory	–
EBSCO host	–
Others	–

- * Citation Index – range / average
- * SNIP
- * SJR.....
- * Impact factor – range / average
- * h-index

15. Details of patents and income generated
.....Nil.....

16. Areas of consultancy and income generated

Consultancy Service	Income generated
Rain water harvesting for Durg Municipal Corporation	Honorary
Petrographic studies of thin sections	Honorary
Guidance for NAAC Accreditation	Honorary
Reporting to media regarding natural calamities	Honorary

17. Faculty recharging strategies

Faculty members of the Geology department actively participated in seminars , workshops and conferences time to time organized within and outside of the college

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	02
Workshop	02
Others	-

18. Student projects

a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme	---

b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	100%
Undergraduate programme	---

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1	Jal Star Award	Dr. Prashant Shrivastava (Faculty member)	2012
2	Rajeev Gandhi Excellence Award	Dr. Prashant Shrivastava (Faculty member)	2013
3	Global Teacher Award	Dr. Prashant Shrivastava (Faculty member)	2015

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter-national Level	Topic/Subject	Funding Agency	Outstanding participants
Seminar	11 th & 12 th October, 2011	National	National Seminar on “Emerging Trends in Scientific Research”	UGC	Dr. Yamuna Singh Group Director, AMD , Hyderabad Prof M.W.Y.Khan, SOS in Geology Pt.R.S.University,Raipur Prof. S.F.R.Khadri, Amravati University
Workshop	10-12 February, 2014	College level	“Importance and Application of Remote Sensing and GIS”	-	Prof. S.K. Pandey, SOS in Geology Pt.R.S.University,Raipur Dr. P. kavishwar, Scientist, Chhattisgarh Council of Science & Technology, Raipur
Workshop	19-21 March ,2016	College level	“Remote Sensing and GIS Softwares”	-	Dr. P. Kavishwar, Scientist, Chhattisgarh Council of Science & Technology, Raipur Dr. P Tripathi and Mr. Abhishek Dewangan

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.ScPart I (Maths group)	64	29	11	58	61
B.ScPart I (Bio group)	72	22	18	51	57
M.Sc. I sem Geology	14	08	02	80	100

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
Course (refer question no. 2)	students from the college	students from the state	students from other States	students from other countries
B.ScPart (Maths group)	-	98 %	2%	-
B.ScPart (Bio group)	-	99 %	1 %	-
M.Sc.	50%	100%	--	--

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	-
Defense Services	-
NET	02
SLET	-
GATE	-
UPSC (Geologist exam)	02
M.P. P.S.C.	01
C.G. P.S.C.	04

24. Student progression

Student progression	Percentage against enrolled
UG to PG	20%
PG to M.Phil.	5%
PG to Ph.D.	20%
Ph.D. to Post-Doctoral	Nil
Employed	
• Campus selection	Nil
• Other than campus recruitment	70%
• Entrepreneurs	15%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	50%
from other universities within the State	-
from other universities from other States	50%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Nil

27. Present details about infrastructural facilities

a. Departmental Library :

No. of text books	434
No. of reference books	6
No. of journals/magazines/proceedings	12
No. of e-books	52
Xerox copies of out of print/rare books	38
No. of CDs/DVDs	04
Lab. Manuals	-

b. Internet facilities for staff and students - Yes

c. Total number of class rooms 02

d. Class rooms with ICT facility 01

e. Students' laboratories 01

f. Research laboratories 01

28 Number of students of the department getting financial assistance from College.

Total 10 PG students are getting financial assistance from College

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Feedback and suggestions were invited from PG students before commencement of PGCGI program run in the IGNOU centre of the college.

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

-Yes, the feedback and suggestions from faculty are discussed in the BOS meeting and the curriculum is framed accordingly.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

-Yes, the IQAC analyses the feedback given by the students and appropriate action is taken by the college administration.

c. Alumni and employers on the programmes and what is the response of the department to the same?

- The alumni give their feedback and give an update about the recent trends of skills to make the students employable.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr. Benidhar Deshmukh	Associate Professor, IGNOU, New Delhi
2	Mr. Amit Soni	Senior Geologist, G.S.I. Nagpur
3	Mr. Jayesh Chourasiya	Geologist, G.S.I. Bengaluru
4	Mrs. Ritupragya	Geologist, G.S.I. Bengaluru
5	Mr. Aditya Mankar	Mining Inspector, C.G. State Govt.
6	Mr. Khilawan Bhuaraya	Mining Inspector, C.G. State Govt.
7	Mrs. Bhuneshwari Patle	Geologist, M.P. Govt.
8	Dr. Vikas Swarnakar	Lecturer, Yugantar Engineering College, Rajnandgaon
9	Mr. Shalabh Saha	Director, Geosolutions Pvt. Ltd.
10	Mr. Shatrunjay Tiwari	Asstt. Manager, B.S.P. (A SAIL unit)

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture	Name of Expert
2015-16	Fundamentals of Geology	Shri Niteesh Dutta, Retired Director General , Geological Survey of India Geology apps for smart phone users Prof. Ramesh Joshi Department of Geology, Govt. P.G. College, Jagdalpur
2014-15	Application of remote sensing and G.I.S. in Geology Petroleum Exploration and Oil Traps Communication Skill Scope and importance of Geology	Professor Shailesh Chaure, Holkar Science College, Indore Mr. Anshuman Tiwari and Mrs. Shweta Tiwari, Petroleum Geologists, British Petroleum Prof. Amrita Kasture, Department of English, Govt. PG College, Bhilai- Professor Greg Shellnutt, Taiwan University
2013-14	Gems and Gemology Personality Development Groundwater Exploration and Resitivity Survey	Dr. Sandeep Vansutre, Assistant Professor, Govt. Science College, Raipur Prof. R.K. Choubey, HOD Sociology Department Dr. K. Panigrahi Hydrogeologist
2012-13	Climate change.	Prof. Jon Harbor, Purdue University , USA
2011-12	G.I.S.softwares ERDAS and ILVIS	Dr. Benidhar Deshmukh, Associate Professor, IGNOU, New Delhi

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1.Chalk and duster 2.ICT enabled teaching 3.Field excursion
PG Programme	1.Chalk and duster 2.ICT enabled teaching 3.Field excursion 4.Group Discussion and seminar presentation 5.Quiz 6.Assignments and surprise tests

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Monitoring is done by periodic assessments and model examination.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
“Innovation fair” organized by CG COST, Raipur	08	Post graduate students of Geology department participated in “Innovation fair” organized by CG COST, Raipur in 2013. They made working model related to railway stations cleanliness campaign and it was highly appreciated.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Visit of PG students to Water Treatment Plant of Durg and Bhilai
2014-15	Visit of PG students to Gevra and Kusmunda Coal mines of S.E.C.L. near Korba
2013-14	Visit of UG students to Dongargarh for environment awareness campaign
2012-13	Visit of PG students to Dipka Coal mines of S.E.C.L. near Korba
2011-12	Visit of UG students to Dongargarh for environment awareness campaign

37. State whether the programme/department is accredited/ graded by other

agencies. Give details - NO

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Well established recognized research centre.
- All faculty members with doctoral degree.
- Most of the alumnus are well placed in the field of Geology and allied fields.
- The alumnus of the department provide all possible support to the students for securing employment.
- Adequate collection of specimens of rocks and minerals.

Weaknesses of the department

- Poor socioeconomic background and poor language proficiency of students
- Inadequate number of faculty members and supporting staff
- Lack of space for laboratories.
- No ongoing research project.
- Lack of flexibility in designing UG curriculum.

Opportunities

- Autonomous status gives us ample opportunity to design not only learner centric syllabus at PG level but also enables us to keep pace with the emerging needs of the industry and the rapidly evolving nature of the discipline.
- Writing and presentation skills of the students are being developed by the written assignments and seminar presentations.
- Opportunities are many in terms of receipt of grants to enhance infrastructural facilities, organize seminars, workshops for both teachers and students.
- New job oriented short term certificate courses will enhance the employability.
- Students get opportunity to interact with geologists and industrialists in mineral based industry sector which facilitates their better understanding of the subject.

Challenges

- To synchronise objectives and goals of the department with the potential and interest of students.
- Encouraging the students towards their enthusiastic involvement in extension activities.
- To promote research activity and publication among the faculty and the students.
- Apprehension among the students towards the subject due to lesser job opportunities in government sector.
- Continuous decline in reading habit among the student and easy availability of sub standard study material in the market.

39. Future plans of the department.

1. Establishment of a Geological Museum.
2. Expansion of the department and enhancement of infrastructure
3. Introduction of new short term job oriented certificate courses on Remote Sensing, G.I.S. and Watershed Management.
4. Organization of international seminar.
5. Interdisciplinary research.

DETAILS OF EXTENSION ACTIVITIES (2012 TO 2015)
DEPARTMENT OF GEOLOGY

S.No.	Name of the Faculty Member	Type of activity	Name of Institution Visited	Date	Topic of Lecture	Event
1	Dr. Prashant Shrivastava	As a judge	Bhilai Institute of Tech. Durg	07/01/2012	-	Annual Youth Festival
2	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Digvijay College Rajnandgaon	05/07/2013	NAAC Accreditation R Preparation of IQAC	
3	Dr. Prashant Shrivastava	Invited lecture Resource person	CG Environment conservation Board	16/09/2013	As a judge in Painting competition	-
4	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. KCB PG College Bhilai-3	29/05/2014	NAAC Accreditation process	
5	Dr. Prashant Shrivastava	Invited lecture Resource person	St. Vincent Palloti College Raipur	22/09/2014	NAAC Accreditation process	
6	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Digvijay College Rajnandgaon	01/11/2014	Formation & Activities of IQAC	
7	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Nehru PG College, Dongargarh	17/11/2014	NAAC Accreditation process	
8	Dr. Prashant Shrivastava	Invited lecture Resource person	Seth R.C.S. College Durg	29/11/2014	NAAC Accreditation process	
9	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Arjunda	17/12/2014	Formation & Activities of IQAC	

10	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Naveen Kanya Mahavidyalaya Raipur	05/01/2015	NAAC Accreditation process	
11	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. DB Girls College Raipur	5 to 17 Jan 2015	Capacity Building of Newly appointed teachers – need & relevance	SAM workshop
12	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College Utai, Durg	28/02/2015	NAAC Accreditation process	
13	Dr. Prashant Shrivastava	Invited lecture Resource person	Shankaryacharya College Junwani Bhilai	07/05/2015	Better & Smooth preparation for NAAC Accreditation.	
14	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Digvijay College Rajnandgaon	13/05/2015	Development of Teaching learning quality in higher education	
15	Dr. Prashant Shrivastava	Invited lecture Resource person	Rotary Club of Raipur Greater	05/06/2015	Awareness on rain water harvesting in urban & rural areas	World Environment Day
16	Dr. Prashant Shrivastava	Invited lecture Resource person	Dev Sanskriti College Durg	07/07/2015	Guidelines for NAAC	
17	Dr. Prashant Shrivastava	Invited lecture Resource person	Swami Swaroopanand Saraswati College Bhilai	09/07/2015	Orientation program for students	

18	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. PG College Balod	11/07/2015	Development of Quality Education	
19	Dr. Prashant Shrivastava	Invited lecture Resource person	Bhilai Mahila Mahavidyalaya Bhilai	13/07/2015	Key Aspects of NAAC preparation	-
20	Dr. Prashant Shrivastava	Invited lecture Resource person	DAV Public School Bhilai	27/07/2015	Capacity Building for school improvement	
21	Dr. Prashant Shrivastava	Invited lecture Resource person	Swami Swaroopanand Saraswati College Bhilai	14/09/2015	Importance of teaching learning criteria in NAAC	
22	Dr. Prashant Shrivastava	Invited lecture Resource person	Swami Swaroopanand Saraswati College Bhilai	24/09/2015	Rotationalizing the utilization of available national resources through appropriate technological intervention	International seminar
23	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. Shivnath Science College Rajnandgaon CG	24/11/2015	NAAC Accreditation process.	
24	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College Gobra Nawapara, Raipur	02/12/2015	Development of Internal Quality in Higher Education	
25	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. DB Girls College Raipur	03/12/2015	Data Collection & Maintenance	RUSA workshop

26	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. D.B. Girls College Raipur	03/12/2015	Higher Education & Enabling Atmosphere	
27	Dr. Prashant Shrivastava	Invited lecture Resource person	Swami Swaroopanand Saraswati College Bhilai	07/12/2015	Capacity Building of teachers	
28	Dr. Prashant Shrivastava	Invited lecture Resource person	Pt. S.C. Shukla College Dharsiwa Raipur	15/12/2015	Capacity Building	
29	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Gunderdehi, Balod	16/12/2015	Capacity Building	
30	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Arjunda, Balod	02/01/2016	Capacity Building	
31	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Abhanpur , Raipur	05/01/2016	Guidelines for NAAC	
32	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College Jamgaon R Durg	04/02/2016	Capacity Building	
33	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. K.C.B. College, Bhilai-3	15/02/2016	Capacity Building	
34	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. C.L.C. College, Patan	22/02/2016	Academic Audit	
35	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Armarikala/Belodi	24/02/2016	Academic Audit	
36	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. College, Tilda	26.02.2016	NAAC Accreditation process	

37	Dr. Prashant Shrivastava	Invited lecture Resource person	Govt. D.B. Girls College Raipur	29/02/2016	Swachha Bharat Abhiyan	
38	Dr. Prashant Shrivastava	Chhattisgarh State Representative	Pt. R.S.University, Raipur(C.G.)	4 th and 5 th March,2016	Enhancement of quality of Education	
39	Dr. Prashant Shrivastava	Chhattisgarh State Representative	Department of Higher Education (C.G.) and TISS , Mumbai	9 th and 10 th March,2016	Leadership in Higher Education	
40	Dr. S.D. Deshmukh	Invited lecture Resource person	Academic Staff College, Pt. R.S.University, Raipur(C.G.)	28.05.13	Value Education	
41	Dr. S.D. Deshmukh	Invited lecture Resource person	Academic Staff College, Pt. R.S. University, Raipur(C.G.)	12.06.14	Value Education Preparation of Power Point Presentation	
42	Dr. S.D. Deshmukh	Invited lecture Resource person	Chhattisgarh Engineering College Durg	12.11.14 13.11.14	Physical Properties of Minerals	
43	Dr. S.D. Deshmukh	Invited lecture Resource person	Academic Staff College, Pt. R.S. University, Raipur(C.G.)	14.11.14	Value Education , effective Teaching	
44	Dr. S.D. Deshmukh	Invited lecture Resource person	Chhattisgarh Engineering College Durg	24.11.14	Study of various geological structures	
45	Dr. S.D. Deshmukh	Resource person	Vigyan Vaarta on A.I.R. Raipur	11-05.15	mi;ksxh gS thok"e Hkh	
46	Dr. S.D. Deshmukh	Resource person	Vigyan Vaarta on A.I.R. Raipur	23-11.15	D;k dkj.k gSa Hkwdai vkus ds	

47	Dr. S.D. Deshmukh	Resource person	Chhattisgarh Engineering College Durg	12.12.15	Heartfulness meditation workshop	
48	Dr. S.D. Deshmukh	Resource person	Govt. Digvijay College, Rajnandgaon (C.G.)	02.02.16	Choice Based Credit System	
49	Dr. S.D. Deshmukh	Resource person	Govt. PG College, Arang (C.G.)	04.02.16	Preparation for NAAC	

Papers in National and International Journals

Shrivastava, P. K. An Integrated Approach for Ground Water Quality Study in Durg District Chhattisgarh, India, *International Journal of Environmental Engineering and Management* 3 (5), 327-329 (2012). ISSN : 2231-1319

Tembhare, B., **Shrivastava, P. K., Deshmukh, S. D.** Stress Management : An important aspect of Education for women, *Social science Reporter* 3 (1), 27-29 (2013). ISSN : 2231-0789

Deshmukh, S. D. Environmental education : The need of the hour. *Environmental Pollution Control journal* 17 (1), 67-68 (2013). ISSN : 0972-1541

Vansutre, S. and **Deshmukh, S. D.** Biotechnology: a paramount tool in the strategy for treatment of waste water. *Environmental Pollution Control Journal* 16 (5), 69-72 (2013). ISSN : 0972-1541

Deshmukh, S. D. Sustainable development in mining sector. *Environmental Pollution Control Journal* 16 (4), 45-47(2013). ISSN 0972-1541

Vansutre, S., **Deshmukh, S. D.** and Hari, K. R. Past, present and future of Indrvati river capture : A geomorphological investigation. *IOSR Journal of Applied Geology and Geophysics* 2 (5), 1-5 (2014). ISSN 2321-0982.

Deshmukh, S. D., Verma, A., Tiwari, P. and Sharma, A. Possibility of usage of age, B.M.I. and B.S.A. as predictors of morningness - eveningness in human beings. *International Journal of Recent Scientific Research* 5 (7), 1322-1326 (2014). ISSN 0976-3031

Evaluative Report of the Department of Microbiology

The Department of Microbiology which runs on a self financing bases at both UG and PG level, strives to set a bench mark in higher education. It envisions acquainting the students with microbes that are necessary for human welfare. The department works not only to acquaint students with textual knowledge but aspires for their all round development. Subsequently, the department organizes guest lectures, workshops, seminars, group discussions, quiz programmes, industry visit, poster presentation etc. Moreover, students are encouraged to visit reputed research institutions and undertake good projects. Over the years the department has established itself as a centre of higher learning, promoting teaching and research.

1. Name of the Department & its year of establishment – **Microbiology; 2002**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc.
PG Courses	M.Sc.
Research degree Course	-

3. Interdisciplinary courses and departments involved

Course	Departments involved
B.Sc.	Chemistry, Botany

4. Annual/ semester/choice based credit system

Under graduate course (B.Sc.)	–	Annual System
Post graduate course (M.Sc.)	–	Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
B.Sc.	Chemistry, Botany

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching	Post Sanctioned	Filled
Professors	Nil	Nil
Asst. Professors	02	03*

* Professor-in-charge of the department is attached from the department of Botany

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Pragya Kulkarni	M.Sc., Ph.D.	Asstt. Pro.	Microbial Biotechnology	22	02
Mrs. Priti Mehta	M.Sc., SET	Asstt. Pro.	Industrial and Environmental Microbiology,	03	Nil
Mrs. Rekha Gupta	M.Sc., M.Phil	Asstt. Pro.	Molecular biology and microbial genetics	03	Nil

8. Percentage of classes taken by temporary faculty– programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	30
	Postgraduate	50
2014-15	Undergraduate	30
	Postgraduate	50
2013-14	Undergraduate	30
	Postgraduate	50
2012-13	Undergraduate	40
	Postgraduate	60
2011-12	Undergraduate	40
	Postgraduate	60

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	40:1
	Postgraduate	10:1
2014-15	Undergraduate	40:1
	Postgraduate	10:1
2013-14	Undergraduate	40:1

	Postgraduate	10:1
2012-13	Undergraduate	40:1
	Postgraduate	10:1
2011-12	Undergraduate	40:1
	Postgraduate	10:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	Nil	0†*
Lab Attendant	Nil	0†*

* Attached from the department of Botany

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator/coinvestigator	funding Agency (National/ International)	Grants received (Rs.)
Minor research	Dr. Pragya Kulkarni	National (UGC)	2,00,000/-
Minor research	Dr. Pragya Kulkarni (Coinvestigator)	State (CGCOST)	6,00,000/-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Project	Name of Investigator	funding Agency (National/ International)	Grants received
-	-	-	-

13. Research facility / centre with

- state recognition NA
- national recognition NA
- international recognition NA

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	13
International	08

Publications Details**2011**

1. Khilendra Dewangan, A.K. Shrivastava and **Pragya Kulkarni**, A prevalence of sickle cell disease among various communities in Jamul area of Bhilai, Chhattisgarh, India. In, Proceedings: National seminar on Sickle Cell Disease, Kabirdham Dist. 29-30 Jan 2011, pp. 80-83.
2. **Pragya Kulkarni**, Aeromycological profile of the public parks of Bhilai Township, Chhattisgarh, India. Indian Journal of Science and Technology. 4(5): 19-21.
3. **Pragya Kulkarni**, Biodiversity of ArbuscularMycorrhizal (AM) fungi associated with cultivated medicinal plants. Adv. Plant Sci. 24(1): 125-128. (IF- 2.7)
4. **Pragya Kulkarni**, Response of ArbuscularMycorrhiza (AM) fungi on growth of cultivated medicinal plants. Adv. Plant Sci. 24(2): 487-490. (IF - 2.7)
5. Khilendra Dewangan, A.K. Shrivastava and **Pragya Kulkarni**, Differential temperature and growth pattern of *Bacillus subtilis* strain isolated from different area of Bhilai (C.G.) In Proceedings National Seminar on Climate Change and its effect on Biodiversity. Bhilai, 67-71.
6. **Pragya Kulkarni**, Intramural Aeromycological studies in the environment of residential colonies near social forests of Bhilai Township, Chhattisgarh. In Proceedings National Seminar on Climate Change and its effect on Biodiversity. Bhilai.
7. **Pragya Kulkarni**, Airborn *Aspergillus* in different environments of Bhilai Township. In Proceedings of National Seminar on Emerging Trends in Scientific Research, 11-12 October 2011, Durg. 81-85

8. Khilendra Dewangan, **Pragya Kulkarni** and A.K. Shrivastava, Isolation, confirmation and amplification of α amylase from *Bacillus subtilis* soil isolates. Int. Res.J. Lab to Land, 3(11): 373-375.

2012

9. Sujata Gaherwar and **Pragya Kulkarni**, Studies on absorption tendencies of chromium & zinc from water by *Pistia stratiotes* under experimental conditions. National Journal of Life Sciences, Volume 09 (1): 128-130
10. Sujata Gaherwar and **Pragya Kulkarni**, Studies on removal of toxic heavy metals from water by *Eichhornia crassipes* National Journal on Scientific Research, 3(2): 99- 103.
11. **Pragya Kulkarni** and Rozina Siddique, Evaluation of antimicrobial activity and characterization of soil Actinomycetes from Social Forest area of Bhilai Township, Chhattisgarh. Journal of Pure and Applied Microbiology, 6 (2): 1985-1990.
12. Sujata Gaherwar and **Pragya Kulkarni**, Bioabsorption of Zinc from pond water using water lettuce (*Pistia stratiotes*). Journal of Ecobiotechnology, 4 (2):145-147.

2013

13. **Pragya Kulkarni** and Nivedita, Screening and evaluation of soil fungal isolates for xylanase production. Recent Research in Science and Technology, 5(2): 33-36.
14. A. Oudhia, N. Brahme, **Pragya Kulkarni** and Savita Sharma, Antibacterial activity of ZnO nanoparticles obtained using Neem leaf extract as Biological Template against *Escherichia coli*. Adv. Plant Sci. 26(2): 367-370. (IF– 2.7)

2014

15. **Pragya Kulkarni**, Effect of Agro-Edaphic conditions on the association, diversity and distribution of AM fungi associated with indigenous weed flora. Indian J.Sci.Res.4 (1): 53-59. (IF 1.4)
16. Chetna Gupta and **Pragya Kulkarni**, Fresh Water Cyanophycean Algae from Durg and Rajnandgaon District (C.G.), India. International Journal of Science and Research (IJSR), 3(8): 1337-1341. (IF : 3.358)

17. Sujata Gaherwar and **Pragya Kulkarni**, Studies on removal tendencies of toxic heavy metals from water by *Pestia stratiotes* and *Eichhornia crassipes* Adv. Plant Sci. 27(2): 367-370. (IF– 2.7)
18. **Pragya Kulkarni** and Chetna Gupta, Heavy Metal Tolerance Studies of Cyanobacterial Species under Experimental Conditions. Periodic Research, 3(2): 93-95, 2014.

2015

19. Savita Sharma, A. Oudhia and **Pragya Kulkarni**, Green synthesis of ZnO nanotubes for bioapplications. International Journal of Advanced Engineering Research and Studies, 4(2): 280-281, 2015.
20. Savita Sharma, A. Oudhia and **Pragya Kulkarni**, Study of Photocatalytic Degradation of Methyl Orange by ZnO Catalysts synthesized through biotemplates. International Journal of Computer & Mathematical Sciences, 4, Special Issue September: 47-52, 2015.
21. **Pragya Kulkarni** and Chetna Gupta, Heavy metal tolerance studies on the fresh water filamentous cyanobacterial species of Durg-Rajnandgaon dist., CG, India. Adv. Plant Sci. 28(2): 217-220, 2015. (IF– 2.7)

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	-	-	-	-
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	05
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

*Citation Index – range /average - 12

*SNIP -

*SJR -

*Impact factor – range / average – 2.7

*h-index - 1

15.Details of patents and income generated - NA

16.Areas of consultancy and income generated

Consultancy Service	Income generated
Project work for PG Student- Interdescpalinary Research-	- 70000/- - Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	01
Seminar	02
Workshop	02
Others	Nil

18.Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	20
Undergraduate programme	Nil

- b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	80
Undergraduate programme	Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students – NIL

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ International Level	Topic/Subject	Funding Agency	Outstanding participants
Seminar	26 – 27 Nov. 2011	National	Recent trends in Plant and Microbial Sciences	UGC	08

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications	Selected		Pass percentage	
	received	Male	Female	Male	Female
B.Sc.	200	30	55	85	65
M.Sc.	85	08	12	100	100

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other states	% of students from other countries
B.Sc.	-	98	2	Nil
M.Sc.	25	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	Nil
Defense Services	Nil
NET	02
SLET	Nil
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	25%
PG to M.Phil.	5%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	Nil
Employed	
• Campus selection	Nil
• Other than campus recruitment	60%
• Entrepreneurs	10%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	66
from other universities within the State	30
from other universities from other States	Nil

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – Nil

27. Present details about infrastructural facilities

a) Library – Departmental library for PG students

No. of text books	210
No. of reference books	65
No. of journals/magazines/proceedings	26
No. of e-books	38
Xerox copies of out of print/rare books	15
No. of CDs/DVDs	04
Lab. Manuals	07

- b) Internet facilities for staff and students - Yes
- c) Total number of class rooms - 02
- d) Class rooms with ICT facility - 02
- e) Students' laboratories – 02 (01UG and 01 PG)
- f) Research laboratories – 01

28. Number of students of the department getting financial assistance from College. : 32

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

-

30. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Yes, Feedback and suggestions are received and discussed during departmental meetings and suitable remedies implemented.
- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Yes, Feedback and suggestions are received and discussed during departmental meetings and suitable remedies implemented.
- c. alumni and employers on the programmes and what is the response of the department to the same?
Yes, Feedback and suggestions are received and discussed during departmental meetings and suitable remedies implemented.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Mrs. Rekha Gupta	Asst. Prof. (PSC)
2	Ku. Deepika Yadav	Asst. Prof. (Adhoc)
3	Nishant Meshram	Medical Officer, CG State Medical Board, Raipur
4	Khemlal Nirmalkar	Research Fellow, Center for Research and Advanced studies Maxico City
5	Ku. Rozina Siddique	Teacher, H.S. School, Qatar
6	Ku. Bhuneshwari Nayak	Research Fellow, Pt. RSU Raipur
7	Loknath Deshmukh	Research Fellow, RD Uni. Jabalpur
8	Ku. Perna Pashine	ICICI Bank Clerical
9	Ku. Bhavana Soni	Asst. Prof. (Adhoc)
10	Chandra Prakash	Technical Assistant, Deobhog Milk, Raipur
11	Ku. Snigdha Vaishnav	Asst. Prof. (Adhoc)
12	Upendra Kumar	Asst. Prof. (Adhoc)

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2014-15	Vaccines and vaccinations	Dr. S.D. Hirpurkar Professor, veterinary college, Anjora, Durg
2012-13	Mushroom Cultivation	Dr. M.P.Thakur Principal, Agriculture college, Kawardha
2011-12	Antibiotic and resistance to antibiotics	Dr. S.D. Hirpurkar Professor, veterinary college, Anjora, Durg
	Microbial disease of plants and Animals	Dr. M.P.Thakur, Principal, Agriculture college, Kawardha

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Chalk and Talk 2. Animation Slides
PG Programme	1. Chalk and Talk 2. ICT lectures 3. Animation slides 4. Group Discussions 5. Class Quiz

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
- Students are informed and motivated to go through important links on microbiological studies
 - Students are given new topics for preparation of charts for their class room
 - Theme based poster and quiz competitions are arranged in the department
- Monitoring of learning outcome is done through -
- ✓ Continuous internal assessment
 - ✓ Student seminar on topic from syllabus
 - ✓ Departmental meeting of faculty

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Disease awareness camp	All PG	Posters related to prevailing diseases were contributed.
Blood grouping test	All PG	Tests were done by the kits provided by the Red Cross Society.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Disease awareness camp - Posters related to prevailing diseases are displayed in nearby H.S. School for Class 9 th to 12 th students
2014-15	Disease awareness camp - Posters related to prevailing diseases are displayed in nearby H.S. School for Class 9 th to 12 th students
2012-13	Visit to water purification laboratory
2011-12	Visit to irrigation dam

37. State whether the programme/department is accredited/ graded by other agencies. Give details. – Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

Strengths :

- Applied subject
- Well established laboratory
- Facility for project work
- Scope for Innovations
- Association with Society

Weaknesses

- Lack of trained lab assistants
- Small laboratory space
- Less Instrument replica
- Less understanding of Technical Language
- Less job opportunities in the region

Opportunities

- Interdisciplinary relevance
- Advance Research work
- Social Awareness
- Research centre
- Scope for social Awareness

Challenges

- Upgradation of UG lab
- To bridge academic industry gap
- To motivate students to read outside the syllabus
- Less text Books
- Mushrooming Subject in nearby Institutions

39. Future plans of the department.

- Establishment of Research Center in Microbiology
- Development of Microbial biofertilizer production division.

Evaluative Report of the Department of Biotechnology

The department of Biotechnology, reputed for immense community oriented research, was recognised as “**Centre of Excellence in Science**” by the Government of Chhattisgarh. This department is one of the mentor department for “Department of Biotechnology, Govt. of India” sponsored “Star College Performer” under which six departments have been covered for promotion of undergraduate study. The major thrust area of research of this department are local health related problems of society such as Sickle cell anaemia, glucose- 6-phosphate dehydrogenase deficiency, HIV- infection, malarial prevalence. Natural resources exploitations such as biomolecule characterization of medicinal plants of state, mushroom cultivation with the aim to generate employment, biodiversity and genotoxicity. For research activities the department is working in collaboration with various national, international institutions and industrial houses.

1. Name of the Department & its year of establishment - Biotechnology
Established in year 2005
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc.
PG Courses	M.Sc.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved

Course	Departments involved
Nil	Nil

4. Annual/ semester/choice based credit system

Under graduate course	–	Annual System
Post graduate course	–	Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
B.Sc.	Chemistry, Zoology

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Posts	Sanctioned	Filled
Professor	Under Process	-
Assistant Professor	01	01*
Visiting Professor	-	01

*Professor-in-charge of the department is attached from the department of Zoology.

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
*Dr. Anil Kumar	Ph.D	Professor	Entomology	23 Years	14
Dr. Abhijeet Bhattacharya	Ph.D	Visiting Professor	Molecular Biology	10 Years	-

* Professor-in-charge of the department is attached from the department of Zoology

8. Percentage of classes taken by temporary faculty—programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	50%
	Postgraduate	60%
2014-15	Undergraduate	50%
	Postgraduate	60%
2013-14	Undergraduate	50%
	Postgraduate	60%
2012-13	Undergraduate	50%
	Postgraduate	60%
2011-12	Undergraduate	50%
	Postgraduate	60%

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	30:1
	Postgraduate	8:1
2014-15	Undergraduate	30:1
	Postgraduate	8:1
2013-14	Undergraduate	30:1
	Postgraduate	8:1
2012-13	Undergraduate	30:1
	Postgraduate	8:1
2011-12	Undergraduate	30:1
	Postgraduate	8:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	01	01
Lab Attendant	-	02

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	Funding Agency (National/ International)	Grants received
Isolation and Characterization of Biomolecules, Pharmaceutical, Cosmetic and Nutritional Importance from Native plants of Chhattisgarh State.	Dr. Anil Kumar	Chhattisgarh State Medicinal Plant Board (AYUSH, New Delhi)	1,30,400.00
Study of Erythrocyte disorder among sc/st of Kabirdham district of CG, India	Dr. Anil Kumar	DST	2,00,000.00

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Project	Name of Investigator	Funding Agency (National/ International)	Grants received
A Study on the prevalence of human parvovirus B19 from Sickle Cell Anaemia affected population of tribal area of Rajnandgaon district of Chhattisgarh.	Dr. Anil Kumar	Department of Science and Technology, Govt. of India.	17,44,000.00
Study of Genetic Polymorphism of Chemokines Receptors for the HIV-1 Infection in Some Tribal Population of Chhattisgarh, India.	Dr. Anil Kumar	Department of Science and Technology, Govt. of India.	3,25,600.00
Study of Erythrocyte disorder among sc/st of Kabirdham district of CG, India	Dr. Anil Kumar	DST	2,00,000.00

13. Research facility / centre with

- state recognition Yes
- national recognition Yes
- international recognition Yes

14. Publications:

- * Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	20
International	18

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	978-3-659-90709-8	-Oxidative stress induced Genotoxicity in sickle cell Anaemia	-Dr. Anil Kumar Dr. Nikhil Mishra	LAB-lambered Academic publishing Germany
2	Books without ISBN No.	-	-	-	-
3	Edited books				
4	Chapters in edited books	ISBN No.978-81-8411-252-8	Biotechnology – Its Growing Dimensions.	Dr. Anil Kumar	Sonali Publication, New Delhi – 02.
ISBN No.978-81-8411-246-7		Environmental Toxicology.	Dr. Anil Kumar	Sonali Publication, New Delhi – 02.	
ISBN No.- 978-81-8356-600-1		Biodiversity Conservation and Management	Dr. Anil Kumar	Discovery Publication House Pvt. Ltd., New Delhi – 02.	
5	Monographs				

- * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	-06
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	--08
Others	<ul style="list-style-type: none"> • Journal Citation Report (JCR) • Index Copernicus • Direct Open Access Journal (DOAJ) • Zoological Records (ISI, Thompson Reuters) • Master Journal List of ISI Web of Science • Google Scholar • Science Central • Universal Impact Factor • Indian Citation Index (ICI) • Directory of Indian R & D Journal (DRIJ) • International Society for Research Activity (ISRA)

- * Citation Index – range / average 1328
- * SNIP
- * SJR Impact factor – range / average Up to 5.6
- * h-index 11
- * i 10 Index 13

- 15 Details of patents and income generated NIL
- 16 Areas of consultancy and income generated

Consultancy Service	Income generated
15	75,000.00

- 17 Faculty recharging strategies
With the purpose of their regular updation the faculty participates in various academic events.

Programme	No. of Faculty benefited
Orientation/Refresher Course	NIL
Seminar	260
Workshop	310
Others (Teachers Training Programme)	75

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme	NIL

- b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	21%
Undergraduate programme	NIL

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No	Award/ recognitions	Faculty/ Doctoral/ Post doctoral fellows/ Students	Year
1	Fellowship of Society of Environmental Science (FSESc)	Dr. Anil Kumar	2006
2	Fellowship of Society of Science and Environment (FSSE)	Dr. Anil Kumar	2009

3	Fellowship of Society of Life Sciences (FSLSc)	Dr. Anil Kumar	2009
4	Fellowship of National Environmentalists Association (FNEA)	Dr. Anil Kumar	2010
5	Dr. D.K. Belsare Award	Dr. Anil Kumar	2012
6	Young Scientist of Biotechnology in Chhattisgarh - 2016	Ekta Singh	2016
7.	First oral presentation award of second meet of ZSC	Jointly by Mr. Nikhil Mishra & Shalini Singh	2016
8.	Second oral presentation award of second meet of ZSC	Lohit Raj Shivwanshi	2016
9.	Third oral presentation award of second meet of ZSC	Swati Pandey	2016
10.	First oral presentation award in National Conference	Mr. Nikhil Mishra	2015
11.	First oral presentation award in National Conference	Swati Pandey	2014
12.	First oral presentation award in National Conference	Ekta Singh	2013

20. Seminars/Conferences/Workshops organized and the source of funding (National /International) with details of outstanding participants, if any.

Seminar/ Workshop	Date	National/ International Level	Topic/Subject	Funding Agency	Outstanding participants
Conference	11-12 th October 2011	National	Bio-resource: Its implication, alteration and management for the welfare of living kingdom.	UGC	24
Seminar	28 th February 2014	State Level	Fostering Scientific Temper	CCOST, Raipur	12
Conference	7-8 th February 2015	National	Prospects of Life Science for Human Welfare with Special Reference to Chhattisgarh	UGC	42

Seminar	28 th February 2015	State Level	Science for Nation Building	Science for Nation Building	12
Workshop	13-15 th April 2011	National	Combo Workshop on Genomics, in collaboration with Disha Life Sciences, Ahmadabad.	College	40
Workshop	24-26 th March 2012	National	Workshop on Bioinformatics, in collaboration of Indian Bioscience and Research Institute.	College	40
Workshop	16-19 th March 2013	National	A Hands on workshop on Molecular Markers, in collaboration with ATG Lab, Pune.	College	40
Workshop	28-30 th January 2014	National	Workshop on Bioinformatics in collaboration with Sai Bioinfosys, Nagpur.	College	40

21. Student profile course-wise:

Name of the Course (refer question no.2)	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	126	24	16	-	-
M.Sc.	122	08	10	100	100

22. Diversity of Students

Name of the Course (refer question no. 2)	% of Students from the College	% of students from the state	% of students from other States	% of Students from other Countries
B.Sc.	99.98	99.99	3	Nil
M.Sc	32	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	Nil
Defense Services	Nil
NET	10
SLET	01
GATE	09
BCIL	18

24. Student progression

Student progression	Percentage against enrolled
UG to PG	30
PG to M.Phil.	NIL
PG to Ph.D.	10
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	13
• Other than campus recruitment	42
Entrepreneurs	02

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	Nil
from other universities within the State	Nil
from other universities from other States	02

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. NIL

27. Present details about infrastructural facilities

a) Library

No. of text books	75
No. of reference books	51
No. of journals/magazines/proceedings	03
No. of e-books	52
Xerox copies of out of print/rare books	12
No. of CDs/DVDs	-
Lab. Manuals	02

b) Internet facilities for staff and students Yes

c) Total number of class rooms 05

d) Class rooms with ICT facility Yes

e) Students' laboratories M.Sc Previous Laboratory and Final Laboratory.

f) Research laboratories Tissue Culture Lab.
Instrumentation Lab.
Molecular Biology Lab.
Microbial Culture Lab.
Toxicology Lab.

28. Number of students of the department getting financial assistance from College.

NIL

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

NIL

30. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

- Twice a year departmental meeting is organized to share and discuss the experiences of the faculty during the teaching-learning process. Subsequently efforts are taken to redesign the curriculum .

b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

- The department assists in the centralized feedback of students on staff, curriculum as well as teaching-learning-evaluation conducted by IQAC. This facilitates the adoption of suitable measures for the all round development of students.

- c) Alumni and employers on the programmes and what is the response of the department to the same?
 -Alumni meet is organized every year. A free interaction is held between the alumni and the faculty .The practical experiences of the alumni prove to be of enormous help in the overall development of the department.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Mr. Rakesh Dadsena	Asstt. Manager- Warehouse Corporation of India.
2	Mr. Dependra Koshaley	Product Specialist, Ranbaxy Ltd.
3	Ms. Kirti Agrawal	Field Application Specialist, Invitrogen (Life Technologies), California, USA.
4	Ms. Richa Agrawal	Junior Scientist, National Environment Engineering Research Institute, Nagpur.
5	Ms. Poonam Kumari	Junior Scientific Officer, Dr. Reddy's Lab, Hyderabad.
6	Ms. Priyanka Singh Baghel	Asstt. Professor, Bhilai Mahila Mahavidyalaya.
7	Mr. Sandeep Chandraker	Asstt. Professor, Govt. College, Bemetara.
8	Ms. Meenaxi Patel	Asstt. Professor, Govt. Digvijay College, Rajnandgaon.
9	Ms. Bhavana Pandey	Ethix Pharma, Raipur.
10	Mr. Suryakant Kumar	Life Cell Technologies, Bangalore.

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	August lecture on "Genetics".	Dr. Laljee Singh
	August lecture on "Chemistry for sustainable development".	Dr. J.S. Yadav
	Guest lecture on "Bioinformatics".	Mr. Dilip Gore
2014-15	Guest lecture on "Nanotechnology".	Dr. Pranveer Singh
	Guest lecture on "Biostatistics".	Dr. A.K.Pati
	Guest lecture on "Mycology: Bioindicator of Pollution".	Prof. S.K. Jadhav
	Guest lecture on "Prospects of Bioscience".	Dr. Prakash S Bisen
	Guest lecture on "Intellectual Property Rights"	Dr. S.S. Sandhu
2013-14	Guest lecture on "Molecular Biology".	Dr. Abhijeet Banerjee
	Guest lecture on "Nanotechnology".	Dr. S.S. Pandey

	Guest lecture on “Technology of Mushroom Culture”.	Dr. M.P. Thakur
	Guest lecture on “Melatonin and Biological system of animal”.	Dr. Saumen K Maitra
	Guest lecture on “Biostatistics : ANOVA”.	Prof. Aarti Parganiha
2012-13	Guest lecture on “3 D Structure of Protein and its function”.	Dr. Rizwan Hasan Khan
2011-12	Guest lecture on “Molecular Biology”.	Dr. Abhijeet Banerjee
	Guest lecture on “Molecular Markers”.	Mr. Devendra Lingojar

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	<ol style="list-style-type: none"> 1. Traditional Black Board Teaching Methodology. 2. Use of Overhead Projector. 3. By interacting with students. 4. By providing study materials and notes. 5. Field Survey.
PG Programme	<ol style="list-style-type: none"> 1. Traditional Black Board Teaching Methodology. 2. Use of LCD Projector. 3. Use of virtual CD & Smart Classroom. 4. Providing e-books, Study Material, Practical Protocols 5. Helping students in Assignment preparation. 6. Internal and External Projects based on Research. 7. Excursion . 8. Class room seminar with the help of Power Point Presentation .

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

To monitor programme objective we have evaluation systems

- Collection of quarterly feedback from students.
- Monthly evaluation meeting .
- Quarterly evaluation of students.
- Assignment to students.
- Class room seminar with the help of Power Point Presentation.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Sickel cell Anaemia testing camp at Village Kareli, Durg. 19 th September, 2011	15	The faculty is mobilizing and propagating mass awareness programme among villagers

		regarding consequences of Sickle Cell Anaemia and possibilities of its prevention. The students take part in screening of Sickle Cell Anaemia among the masses with the help of trained technicians.
Sickle cell Anaemia testing camp at Khairagarh. 23 January, 2012	15	-do-
Sickle Cell Anaemia testing Camp organized at Govt. College, Chuikhadan. 29 th August, 2013	15	Do
Sickle Cell Anaemia testing Camp organized at Govt. College, Patan (Jamgaon R). 26 th January, 2014	15	
Sickle Cell Anaemia testing Camp organized at Govt. H.S. School, Khamhariya. 13 th & 14 th November, 2014	15	Do
Sickle Cell Anaemia Camp Organized at Govt. V.Y.T.PG. Auto. College. Durg. 28 th November 2014.	15	Do
Sickle Cell Anaemia Testing Camp Organized at Govt. H.S. School, Khapari. 19 th December, 2015.	15	Do
Sickle cell Anaemia testing camp at Village Kareli, Durg. 05 th February, 2016.	15	Do

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	Beyond syllabus scholarly activities
2015-16	<ol style="list-style-type: none"> 1. Study on GST gene polymorphism in Sickle Cell Patients of Chhattisgarh. 2. Bio-decomposition of kitchen waste using different fungal species. 3. Study on G6PD Deficiency in the tribal population of Chhattisgarh. 4. Phytochemical and Molecular Characterization of <i>Andrographis paniculata</i>. 5. Cultivation of Edible Mushroom.

2014-15	<ol style="list-style-type: none"> 1 Genotoxicity assessment in tobacco user by Micronuclei test. 2 Genotoxicity assessment in individuals exposed to transformer and tower by Micronuclei test. 3 Genotoxicity assessment in individuals exposed to fly ash by Micronuclei test. 4 Effect of Arsenic on Lymphocytes of <i>Oryctolagus cuniculus</i> and its chelating effect by <i>Ocimum gratissimum</i>. 5 Study of genetic Polymorphism of Chemokines receptors for the HIV 1 infection in tribal population of Chhattisgarh. 6 Phytocompound Analysis of Some medicinal plants by HPLC.
2013-14	<ol style="list-style-type: none"> 1. Study of Cyanobacterial diversity from local ponds of Durg district of Chhattisgarh. 2. Study of Fungal diversity from soil of Chhattisgarh state and analysis of their banding pattern. 3. Analysis of Phytocompounds from different medicinal plants by Chemical Color Reaction and TLC Profiling.
2012-13	<ol style="list-style-type: none"> 1. Isolation of Oil and Petrol Degrading Bacteria. 2. Antioxidant and Antidiabetic property analysis of some medicinal plants. 3. Study on abnormal mitosis in root tip of Onion exposed to Chemical Carcinogens, Pesticides etc. 4. Phytoremediation of Heavy metals.
2011-12	<ol style="list-style-type: none"> 1. First time Micropropagation of <i>Wedelia trilobata</i>. 2. DNA Banding Pattern Analysis of Similar Plant Species from different Geographical regions. 3. Antibacterial and antifungal activity of various medicinal plants. 4. Monocrotophos (Pesticide) degradation by <i>Aspergillus niger</i>.

37. State whether the programme/department is accredited/ graded by other agencies. Give details.
- “**Centre of Excellence in Science**” status granted by the Government of Chhattisgarh.
 - Under the DBT Star Scheme, the department was acknowledged as “**Star Performer Department**”, by the Department of Biotechnology , Government of India. After yearly evaluation the department was sanctioned the programme for three consecutive years. The department is the sole recipient of this scheme in the entire state of Chhattisgarh.
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Good research facility and output. The department is engaged in intense research activity. The areas of research are Genotoxicity, Sickle Cell Anaemia, Glucose-6-Phosphate Dehydrogenase

Deficiency, Infestation limit of malarial parasite among Sickled population, Parvovirus-B study among Sickled population, GST gene analysis, Oxidative Stress and induced Genotoxicity etc.

- Serving society, the department conducts tests free of cost of various kinds of haemoglobinopathes especially sickling and other pathogenecity.
- Develops entrepreneurial qualities in the students by giving them Mushroom Cultivation training.
- Showing concern towards increasing environmental pollution the department conducts regular monitoring of the levels of Arsenic and Fluoride in drinking water and cyanotoxin from water bodies of Chhattisgarh.
- The department extends technical support to farmers for cultivation of medicinal plants.
- Extends scientific validation to traditional healing.
- Characterization facility of bio-molecules from medicinal plants of Chhattisgarh.
- The department boasts of a large number of NET/GATE/BCIL qualified students.

Weaknesses of the department

- Insufficient teaching and non-teaching staff.
- Insufficient infrastructure.
- Insufficient government funds.
- Lack of green house, mist house and animal house.

Opportunities

- Inhabitation of primitive tribes in our catchment area gives us an opportunity to study their genesis.
- Our catchment area is infested with malarial parasite, haemoglobinopathes, HIV infection and sanguinity. This gives us an opportunity for extensive study and research.
- Availability of good natural resources viz. Medicinal Plants and Forests, provide us an opportunity for their exploration.
- Good number of talented students are available, so no dearth of stakeholders.
- More than 42% area is covered with forest, so we have good opportunity to generate employment for youth by the application of Biotechnological tools.

Challenges

- To provide job opportunity to pass out students.
- To bring manpower in the department.
- To create separate laboratory for UG and PG classes.

39. Future plans of the department.

1. To create entrepreneur programme for the students especially in the field of Mushroom Culture, Medicinal Plant Cultivation, Biofertilizer and Biopesticide production for self employment of students.
2. To establish mushroom cultivation training centre to poor villagers.
3. To provide medicinal plant cultivation and exploitation technology to villagers.
4. To establish separate departmental building with adequate space.
5. To get sufficient staff from State Government.
6. To get DST-FIST Programme for overall development of the department.
7. To establish genetic analysis centre.
8. To establish recognized R & D lab for testing of different biomolecule for industrial acceptability.
9. Advance study about prevailing gene frequencies related to chemokine receptors of HIV-I, Sickle Cell Anaemia (GSTT1, GSTM1 and GSTP1 gene) and polymorphic analysis of Glucose-6-Phosphate Dehydrogenase deficiency in society of Chhattisgarh.
10. Advance study of scientific validation of traditional knowledge especially phytoremediation of snake venom

Papers in National and International Journals

Anil Kumar. *Parthenium hysterophorus L.* and its impact on living world. Indian Journal of Science. Vol. 4(1): 08-14, (2014). ISSN: 0976-2876

Seema Tripathi, **Anil Kumar**. Renal Dysfunction caused by acute and chronic exposure of sodium arsenite (Na_3AsO_3) in *Oryctolagus cuniculus L.* BIOGLOBIA. 1(1):46-52, (2014). ISSN: 2349-5626.

Sukhdeo Ram Kannoje and Anil Kumar. Diversity of Molluscan communities in Sheonath River of Chhattisgarh, India. National Journal of Life Science. 11(1): 85-87, (2014). ISSN: 0972-995.

Nikhil Mishra, Shrish Agrawal, S.K. Jadhav, **Anil Kumar***. Traditional Applications and Phytochemical Investigation of *Andrographis paniculata* from Four Districts of Chhattisgarh, India. Advances in Bioresearch. 5(3):191-202, (2014). ISSN: 0976-4585.

Nikhil Mishra, **Anil Kumar***. Assessment of Micronuclei Frequency in Sickled Tribal Population (Halba and Gond) of District Durg, Chhattisgarh, India. Advances in Bioresearch. 5 (4):125-130, (2014). ISSN: 0976-4585.

Evaluative Report of the Department of Geography

The department of Geography, though small in terms of faculty, tirelessly works to impart subject based knowledge. Conscious of the employability inclination of the learners the department endeavours to create suitable human resource necessary for the study and assessment of geographical features of the region of Chhattisgarh. A geogenic study of a region goes a long way in the proper utilization of natural resources .It is to this effect ,that the department is dedicated to promote learning and research. It caters to a large number of students at both U.G and P.G. levels of study.

1. Name of the Department & its year of establishment - Geography 1967
- 2.Names of Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A. (Geography)
PG Courses	M.A. Geography
Research degree Course	-

3. Interdisciplinary courses and departments involved - Nil
4. Annual/ semester/choice based credit system
 - Under graduate course – Annual System
 - Post graduate course – Semester System
5. Participation of the department in the courses offered by other departments -Nil
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioneds	Filled
Professors	01	vacant
Asst. Professor	02	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years Of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Ranjana Sharma	M.A. Ph.D	Asst. Prof.	Agriculture & Medical Geography	26 yrs	-
Dr. Sushma Yadav	M.A. Ph.D	Asst. Prof.	Urban Geography		-

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	25-30
	Postgraduate	20-25
2014-15	Undergraduate	25-30
	Postgraduate	20-25
2013-14	Undergraduate	25-30
	Postgraduate	20-25
2012-13	Undergraduate	25-30
	Postgraduate	20-25
2011-12	Undergraduate	-
	Postgraduate	-

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	87:01
	Postgraduate	15:1
2014-15	Undergraduate	100:01
	Postgraduate	15:1
2013-14	Undergraduate	97:01
	Postgraduate	16:1
2012-13	Undergraduate	100:01
	Postgraduate	16:1
2011-12	Undergraduate	74:01
	Postgraduate	7:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	01	01
Lab Attendant	01	01(Jan Bhagidari)

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	of Funding Agency (National/ International)	Grants received
Major Research project	Dr. Ranjana Sharma	U.G.C. National	1100800/-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received
Nil

13. Research facility / centre with

- state recognition Nil
- national recognition Nil
- international recognition Nil

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	Nil
International	Nil

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.		Nil		
2	Books without ISBN No.	-	Nil		
3	Edited books		Nil		
4	Chapters in edited books		Nil		
5	Monographs		Nil		

- * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	Nil
Scopus	Nil
Humanities International Complete	Nil
Dare Database- International Social Sciences Directory	Nil
EBSCO host	Nil
Others	Nil

- * Citation Index – range / average - Nil
- * SNIP - Nil
- * SJR – Nil
- * Impact factor – range / average – Nil
- * h-index – Nil

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	14
Workshop	06
Others	-

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme	100%

- b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	Nil
Undergraduate programme	Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/Doctoral/Post doctoral fellows/ Students	Year
1	-	Nil	-
2	-	Nil	-
3	-	Nil	-

20. Seminars/Conferences/Workshops organized and the source of funding (National /International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter-national Level	Topic/ Subject	Funding Agency	Outstanding participants
-	-	-	Nil	-	-
-	-	-	Nil	-	-
-	-	-	Nil	-	-

21. Student profile course-wise:

Name of the Course(refer question no. 2)	Applications received	Selected		Pass percentage
		Male	Female	
M.A.	70	19	07	100%
B.A.		77	52	100%

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of Students from other Countries
BA.		100%	Nil	Nil
MA.	50%	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	-
Defense Services	-
NET	02
SLET	02
GATE /TET	10

24. Student progression

Student progression	Percentage against enrolled
UG to PG	20%
PG to M.Phil.	05%
PG to Ph.D.	15%
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	-
• Other than campus recruitment	-
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	100%
from other universities within the State	-
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - NIL

27. Present details about infrastructural facilities

a. Library – Departmental Library

No. of text books	1546
No. of reference books	200
No. of journals/magazines/proceedings	05
No. of e-books	Nil
Xerox copies of out of print/rare books	Nil
No. of CDs/DVDs	Nil
Lab. Manuals	Nil

b. Internet facilities for staff and students – Yes

c. Total number of class rooms - 02

d. Class rooms with ICT facility - 01

e. Students' laboratories - 02

f. Research laboratories – 01

28. Number of students of the department getting financial assistance from College.

All SC/ST Students get scholarship as per the rules of the government of Chhattisgarh.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. - No

30. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? -

As per the feedback changes are implemented to make teaching and learning fruitful.

b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? –

Student feedback is taken by IQAC and guided by the feedback the department makes feasible changes not only in the curriculum but also in the teaching, learning and evaluation methodology.

c. alumni and employers on the programmes and what is the response of the department to the same?

The department makes profitable use of the feedback of alumni and employers.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Mr. Kirti Kumar Kausik	Food Officer - Dantewada
2	Mr. Jinendra Dongre	Lecturer, D.A.V. School, Malajkund
3	Miss Shivani khanduja	Lecturer, D.A.V. School, Malajkund
4	Mr. Chandan Singh Rathore	Lecturer, J.B. G.V.Y.T. College, Durg
5	Miss Sunita Kumari	Lab. Tech. G.W.W.P.G. Girls College, Durg
6	Miss Jyoti Sahu	Lecturer, J.B G.W.W.P.G. Girls College, Durg
7	Mr. Dharmendra Dewamgan	Lecturer, J.B.Govt. College, Patan
8	Miss Premlata Dhruv	Lecturer, Govt. School
9	Mr. Alok Sahu	Police Department, Raipur
10	Mr. Suresh sahu	Police Department, Baster

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic:Special Lecture/Workshop/Seminar	Name of Expert
2015-16	1. History of cartography 2. Migration and Resource Development	Dr. Prashant & Abhishek Shrivastav Dr. H.S. Gupta Rted. Chairperson , Pt. RSU Raipur Dr. Sarla Sharma, HOD Pt. RSU Raipur
2014-15	History of Cartography	Dr. H.S. Gupta
2013-14	Workshop on Remote sensing & GIS	Dr. Prashant NIT, Dr. Choure Indore
2012-13	-	-
2011-12	-	-

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	Lecture method Use of ICT GIS
PG Programme	Lecture method Use of computer PPT GIS Group discussion

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
Monitoring of programme objectives and learning outcome is done through Continuous and Comprehensive Appraisal Method.
35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Excursion – PG students 2015-16	22	Agriculture land Use pattern – 22 villages covered
2014-15	22	Condition and scope of development of Marketing center in villages- 22 villages covered
2013-14	22	Dietary survey and there management 22 villages covered
2012-13	16	Availability of water resources and their management 16 villages covered
Excursion – UG students 2014-15	35	Study of Rajhara mines
2013-14	55	Study of Tandula Dam and Siya Devi water fall
2012-13	46	Study of village Sagni Durg

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Lecture on Population Migration and Resource managment
2014-15	Lecture on historical development of Cartography
2013-14	Workshop on Application of Remote sensing & GIS
2012-13	Lecture on remote sensing

37. State whether the programme/department is accredited/ graded by other agencies. Give details. - NIL
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

1. Highly qualified and experienced faculty
2. Rich library
3. Special coaching to weak students
4. Making available study material of rare and good books by Xerox.

Weaknesses of the department

1. Lack of proper infrastructure
2. Insufficient no. of faculty
3. Weak ICT proficiency of students
4. Inhibition of students to read standard study material.

Opportunities

1. Application of geography and field of hydrology, engineering works & hazard management.
2. To design need based syllabus of PG.
3. Extensive research activity.
4. Qualitative development of students.

Challenges -

1. To dissuade students from reading bazar guides
2. To improve ICT skills of students who are mainly from weak socio-economic background
3. To develop job oriented skills in students

39. Future plans of the department.

1. To organize National level seminar and workshop
2. To promote research activity in the department
3. To improve I C T proficiency
4. Permanent installation of telescope in the department.

Papers in National and International Journal

Dr. Ranjana Sharma –

Year	Title	Name of Journal/Book	ISSNNo./ ISBN No.	Volume/ Edition
2014	Rural Population of North & North West Chhattisgarh Basin	Shodh Sankalp Bhilai.	2277-2715	(08) Jan. Page no. 35-40
2013	Food Grain Availability & Intake Pattern in Rural Population of West Chhattisgarh Basin	Shrinkhala. (INT) Kanpur	2321-290(x)	(02) Aug. Page no. 120-125
2011	Nutritional level of Rural Population – Special Reference to Durg Distt.	A Journal of Asia for Democracy & Development. Morena (M.P.)	0973-3833	XI (03) Page no. 143-149
2011	Cropping intensity & Crop Diversity – A study of Durg Distt.	A Journal of Asia for Democracy & Development.	0973-3833	XI (01) Page no. 169-173

Dr. Sushma Yadav

Year	Title	Name of Journal/Book	ISSN No./ISBN No.	Volume/E dition
2014	Nagariya khsetra ki gandhi bastion me nivasrat parivaron ka star – Bhilai nagar ki gandhi bastiya – Ek Pratik adhyan	Shrinkhala	2349-980	02 (III) Nov 14

Evaluative Report of Anthropology Department

The state of Chhattisgarh is mostly tribal populated and has a wide ethnogenetic variation. The Anthropology Department strives to study genetic and cultural variation in the society of Chhattisgarh. It further envisions to study the impact of modernization on the local tribes in terms of their economy and cultural traditions .

1. Name of the Department & its year of establishment - ANTHROPOLOGY, 1984
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc. and B.A.
PG Courses	-

3. Interdisciplinary courses and departments involved

Course	Departments involved
B.A.	History, Geography, Political Science, , Psychology
B.Sc.	Chemistry, Zoology

4. Annual/ semester/choice based credit system
Under graduate course – Annual System
5. Participation of the department in the courses offered by other departments

Course	Departments involved
B.A.	History, Geography, Political Science, English, Hindi,
B.Sc.	Chemistry, Zoology

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	-	-
Asst. Professors	01	01

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Sandhya Agrawal	M.Sc, M.Phil, Ph. D	Asstt. Prof.	Physical Anthropology	34 Years	-

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2011-16	Undergraduate	Nil
	Postgraduate	NA

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	90:01
	Postgraduate	NA
2014-15	Undergraduate	128:01
	Postgraduate	NA
2013-14	Undergraduate	118:01
	Postgraduate	NA
2012-13	Undergraduate	125:01
	Postgraduate	NA
2011-12	Undergraduate	81:01
	Postgraduate	NA

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	-	-
Lab Attendant	-	01(Appointed by Janbhagidari Samiti)

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. –Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - Nil

13. Research facility / centre with

- State recognition NA
- National recognition NA
- International recognition NA

14. Publications: Nil

15. Details of patents and income generated- Nil

16. Areas of consultancy and income generated -Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	01
Workshop	03
Others	-

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	NA
Undergraduate programme	Nil

- b. Percentage of students doing projects in collaboration with industries/ institutes ---- Nil.

19 Awards /recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students ---None

20 Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.- Nil

21. Student profile course-wise:

Name of the (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. Part I	185	50	80	38.4	61.5
B.A. Part I	05	30	60		

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from the States	% of students from other countries
B.Sc.	-	100%	-	-
B.A.	-	100%	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	Nil
Defense Services	Nil
NET	02
SLET	Nil
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	
• Campus selection	NA
• Other than campus recruitment	NA
Entrepreneurs	NA

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	100%
from other universities within the State	-
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - Nil -

27. Present details about infrastructural facilities

- | | |
|---|--|
| a) Library - | Books are available in central library |
| b) Internet facilities for staff and students | Yes. |
| c) Total number of class rooms | 01 |
| d) Class rooms with ICT facility | None |
| e) Students' laboratories | 01 |
| f) Research laboratories | Nil |

28. Number of students of the department getting financial assistance from College.

As per the norms of the Chhattisgarh government the students get financial assistance.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Nil

30. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
- On the basis of the feedback required changes are made in teaching, learning and evaluative methodology.
- Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
- Guided by the feedback taken by IQAC appropriate modifications are done in teaching, learning and evaluation methods.
- Alumni and employers on the programmes and what is the response of the department to the same?
- The department is benefitted by the suggestions of the alumni.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni
1	Ku.Tulsi Rani Pardhi
2	Shri Shailendra K. Verma
3	Shri Raj Kumar Verma
4	Shri Ashish Mahobia
5	Ku. Pragya
6	Shri Tumman Lal Katendra
7	Shri Ashish K. Ranjan
8	Shri Raja Ram Verma

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/ Workshop/Seminar	Name of Expert
2015-16	Career Counseling in Anthropology	Dr. Jitendra Kumar Pt. R.S.University, Raipur

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Black board method 2. Group discussion and class test

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
By group discussion, unit test, quarterly, half yearly and model examinations .

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
2015-16	17	Conducted programme on Human Biology for the students of Higher Secondary School .
2014-15	40	Assisted the students of Digvijay College, Rajnandgaon to work on their practical course in the departmental laboratory.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	Beyond syllabus scholarly activities
2015-16	Delivered a guest lecture at Digvijay College, Rajnandgaon
2014-15	Delivered a guest lecture at Digvijay College, Rajnandgaon

37. State whether the programme/department is accredited/ graded by other agencies. Give details. --- No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Qualified and experienced faculty
- The only department in the district offering the course in Anthropology
- Inter-disciplinary course at UG level offered for Arts and Science students

Weaknesses of the department

- Insufficient faculty
- Lack of space and resources for Anthropological museum
- Need to start course at PG level
- Lack of sufficient standard reference books in the library

Opportunities

- Scope for research on the impact of modernization on tribal culture
- Vast scope to create job opportunity in tribal areas
- Opportunity to prepare students for competitive exams with Anthropology as an optional subject

Challenges

- Establishment of Anthropological museum
- Establishment of well equipped UG laboratory
- Spread subject awareness among students as it is not pursued at school level

39. Future plans of the department.

1. To establish tribal arts museum of the tribes of Chhattisgarh in the institute.
2. To establish well equipped laboratory.
3. To provide ICT facility to the students.
4. To initiate PG programme in the department.

Evaluative Report of the Departments of Hindi

The Department of Hindi has an illustrious history. It came into existence since the inception of the college in 1958. The faculty associated with the department in the past included some renowned litterateurs and distinguished teachers. The intellectual contribution and academic output rendered by them towards teaching and literary creativities in Hindi is very significant.

The department is endowed with 07 regular and 01 part-time faculty, all holding research degree. The regular faculty members have almost three decades of experience in teaching. Some of them are actively involved in research and literary criticism. The department is adequately enriched in terms of academic excellence and teaching experience.

There are 8 posts sanctioned in the department. Besides teaching, research and other academic activities the faculty members have fairly good number of publications to their credit. One of the faculty members is a well known literary critic, who has published two outstanding books on literary criticism in the recent years. He has been conferred with **Muktibodh samman** for his work on literary criticism. He has also been awarded the prestigious fellowship by **Raza Foundation**, instituted by one of India's leading contemporary artist Syed Haider Raza who is a great lover of literature also.

Some faculty members are often invited by the other institutions to deliver guest lectures and also as subject expert or resource person in the seminars, symposia, workshops and writers-conferences. One of the faculty member has delivered three e-lectures for e-pathshala programme of UGC. The faculty members have also been nominated as members of Board of Studies by the University and various Autonomous colleges. The Head of the department had been working as Chairman of the Board of Studies, Pandit Ravi Shankar Shukla University, Raipur during the year 2011-14. One of the faculty member has been appointed by the University as member of Arts Faculty and Board of Studies.

Every undergraduate student has to compulsorily pursue the study of Hindi language, as it is an essential component of all undergraduate syllabi. Apart from that a number of students offer Hindi literature as an optional subject for their undergraduate courses. The students are admitted strictly on the basis of their marks in the previous examination at the entry level, in PG as well as in the UG courses.

The students in the department come from different social strata, but mostly they belong to the deprived and marginalized sections of society. They, by and large, belong to lower and middle income groups and semi-urban or rural background. Majority of them are well-versed in the local dialect, *Chhattisgarhi*. Having a working knowledge of Hindi, they are not competent enough to smoothly express in a formalized urban language, facing a challenge to improve their language-proficiency. The department strives to enhance their language skill. A remarkable improvement in command over Hindi language is often observed among PG students. They are also motivated to use Information and Communication Technology for enhanced learning.

1. Name of the Department & its year of establishment - **Hindi 1958**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A. I, II, III Hindi Lang. & Hindi Litt. B.Sc. B.Com. I, II, III Hindi Lang.
PG Courses	M.A.
Research degree Course	Ph.D

3. Interdisciplinary courses and departments involved
The department does not offer any Inter-disciplinary courses; neither it is involved in any such course offered by other departments.
4. Annual/ semester/choice based credit system
Under graduate course (B.A. B.Sc. B.Com.)– Annual System
Post graduate course (M.A Hindi) –Semester System
5. Participation of the department in the courses offered by other departments

The department doesn't participate in the courses offered by other departments, except for the regular multidisciplinary UG programmes (like B.A., B.Sc. and B.Com.) conducted by the institution. The department is involved in teaching these programmes alongwith other Science, Social science and Commerce departments, as Hindi language is included in all the UG syllabi as a compulsory subject.

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	05	05
Asst. Professors	03	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S. No.	Name	Qualification	Designation	Specialization	Year Of Experience in teaching		No. of Ph.D. Student Guided for last 4 Years
					U.G.	P.G.	
1	Dr. Sheela Agrawal	M.A. Ph.D.	Professors	Sameeksha Shastra & Bhasha Vigyan	35	35	-
2	Dr. Shraddha Chandrakar	M.A. Ph.D.	Professors	Adhunik kavya/ Gadhya Prayogan mulak Hindi	35	15	Guided – 08 Co Guid - 09
3	Dr. Abhinesh surana	M.A. Ph.D.	Professors	Janpadeeya Bhasha Prayogan mulak Hindi	32	20	07
4	Dr. Shankar Nishad	M.A. Ph.D.	Professors	Pracheen & Adhunik Kavya	31	16	-
5	Dr. Baljeet Kaur	M.A. Ph.D.	Professors	Praceen & Adhunik Kavya Patrakarita	30	30	Guided – 04 Co Guid - 05
6	Dr. Jaiprakash Sao	M.A. Ph.D.	Asst. Professors	Janpadeeya Bhasha Bhartiya Sahitya	33	23	-
7	Dr. Krishna Chatterjee	M.A. Ph.D.	Asst. Professors	Hindi Sahitya ka Itihas/Bhasha Vigyan	26	26	Guided – 07 Co Guid - 01

8. Percentage of classes taken by temporary faculty– programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	16.4
	Postgraduate	-
2014-15	Undergraduate	16.4
	Postgraduate	-

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	494 :1
	Postgraduate	8 :1
2014-15	Undergraduate	511 :1
	Postgraduate	9 : 1
2013-14	Undergraduate	437 : 1
	Postgraduate	11 : 1
2012-13	Undergraduate	283 : 1
	Postgraduate	11 : 1
2011-12	Undergraduate	386: 1
	Postgraduate	1 : 1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	Nil	Nil
Lab Attendant	Nil	Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. - NIL
12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - NIL
13. Research facility / centre with
- State recognition.....Yes.....
 - National recognition
 - International recognition

14. Publications:

- * Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	Nil *
International	Nil *

**The faculty have published 15 articles/papers in reputed literary magazines and journals which have worldwide circulation.*

*Books with ISBN numbers with details of publishers

No.	Specifica tion	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	978-81-7779- 453-3	Kahani ki Upasthiti	Dr. Jaiprakash Sao	Sahitya Bhandar, Allahabad
		978-93-82307- 86-0	Lok Ka Antahsansar	Dr. Jaiprakash Sao	Surya Prakashan Mandir, Bikaner

* Chapter(s) in edited Books

No.	Title of Book	Editor	ISBN No	Title of Chapter	Author	Publishe rs
1	Timir me Jharta Samay	Dr. Rajendra Mishra	978-93- 5072-734-0		Dr. Jai prakash Sao	Vani Prakashan, New Delhi
2	Chhattisgarh me Muktibodh	Dr. Rajendra Mishra	978-81-267- 2716-2	Muktib odh ke Sahchar	Dr. Jai prakash Sao	Raj Kamal Prakashan, New Delhi

*number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	Nil
Scopus	Nil
Humanities International Complete	Nil
Dare Database- International Social Sciences Directory	Nil
EBSCO host	Nil
Others	Nil
	Nil
	Nil

*Citation Index – range / average Nil
 *SNIP Nil
 *SJR Nil
 *Impact factor– range / average..... Nil
 *h-index.....Nil

15. Details of patents and income generated Nil

16. Areas of consultancy and income generated

Consultancy Service	Income generated
Nil	Nil
Nil	Nil

17. Faculty recharging strategies

Scholars and literary practitioner are invited in the department for literary talks and guest lectures. Interactive sessions of renowned writers and intellectuals with the faculty are organized as **faculty recharging strategy**. Eminent poet and *Sahitya Akademi* awardee **Vinod Kumar Shukla** and another *Sahitya Akademi* awardee poet-critic and one of the leading public intellectual in the country, **Ashok Vajpeyi** are among distinguished visitors of the department, who enlightened the faculty.

The faculty members participate in seminars, symposia and workshops organized by other institutions. Besides this, they regularly participate as audience in the literary and scholarly discourses, organized extensively by various literary and cultural organizations in Durg-Bhilai twin city.

By subscribing and reading the literary magazines and journals the faculty get updated and acquainted with contemporary developments in literature. The informal discussions and table-conversations on variety of literary issues, that happen to be carried on regularly in the department, also help the faculty to improve their knowledge and information level.

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

The post-graduate students in the department prepare in-house projects since project is included in the syllabus as mandatory curricular practice.

- b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries/ institutes
Postgraduate programme	Nil
Undergraduate programme	Nil

19. Awards /recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/Doctoral/Post doctoral fellows/ Students	Year
1	Rajeev Gandhi Fellowship	Lata Markandey	2014 onwards

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

Poetry workshops under the series 'Yuva Srijan Ki Dishaen' were organized by the department for school and college students. Attempts were made to make the budding poets, who came from across the entire Durg district, more attentive towards poetic traditions and cultural milieu of Hindi literature. The young literary enthusiasts were also informed about poetic grammar and techniques of poetry-writing. In these workshops senior literary practitioner and poets around Durg-Bhilai twin city were invited to enthuse, inspire and enlighten the youngsters. In one such workshop eminent poet-novelist and recipient of many prestigious awards, including Sahitya Akademi award **Shri Vinod Kumar Shukla** and distinguished literary critic **Dr. Rajendra Mishra** were also invited. These workshops were organized with no financial outsourcing, and with the minimum budget provided by the college.

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.	737	155	198	97%	95%
B.Sc.	1977	440	421	99%	98%
B.Com.	917	196	180	98%	96%
M.A.	53	13	40	93%	93%
Ph.D.	14	4	8	100%	100%

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.A.	100	100	Nil	Nil
B.Sc.	100	100	Nil	Nil
B.Com.	100	100	Nil	Nil
M.A.		100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	01
Defense Services	Nil
NET	01
SLET	01
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	25
PG to M.Phil.	-
PG to Ph.D.	10
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	50
Entrepreneurs	

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	7
	5
from other universities within the State	Nil
from other universities from other States	25

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - NIL

27. Present details about infrastructural facilities

a) Library :

The department has its own library that serves as major learning resource for the post-graduate students who can have free and frequent access to the same. Besides this, there is central library in place with a large collection of books, journals, newspapers, volumes of various encyclopaedia and other reference material. Book Bank facility is also provided to the students from BPL/ SC/ST categories. The college library subscribes to as much as 15 reputed literary magazines. Some faculty members also subscribe to various literary magazines personally and keep them in the department for students, faculty and research scholars.

b) Internet facilities for staff and student:

The PG Students are motivated to make use of education technology, new ICT (information and communication technology) methods and tools in order to promote enhanced learning so that learning through technology could be made a pleasant and joyful experience. In order to equip the department with ICT facilities computers, lap-top, LCD projector etc. have been provided for the students as well as for the faculty.

c) Total number of class rooms	12
d) Class rooms with ICT facility	01
e) Students' laboratories	NA
f) Research laboratories	NA

28. Number of students of the department getting financial assistance from College.

-Students getting financial assistance as scholarship: PG- 90% ,UG- 70%

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

-No such exercise has been taken.

30. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The curricula are regularly reviewed by Board of Studies, which meets before the beginning of every academic session. All the faculty members, by virtue of being its member, partake of the proceedings of the meeting and articulate their views on the curriculum. The opinions put forth by them are taken into consideration in reorganizing the syllabi.

In review meetings, held in the department periodically, the faculty members express their views based on individual observations and experiences regarding teaching-learning practices. Teaching strategy is planned, taking into account their opinions.

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Based on a format, especially designed by the IQAC, feedback is obtained from students on faculty and curriculum and also on the process of teaching-learning-evaluation. The opinions expressed by students are discussed and reviewed by the IQAC with the purpose of planning and adopting proper strategies for pedagogic practices. The outcomes of feedback-review, including suggestions and recommendations made by Review Committee are conveyed to the department which, in turn prepares teaching-learning and activity plan accordingly.

- c. alumni and employers on the programmes and what is the response of the department to the same?

The former students of the department are invited in BOS meeting and Alumni Gathering every year. They give valuable suggestions to improve the quality of education in the department.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Shri Vishveshver	Renowned Litterature
2	Shri Basant Tripathi	Young Poet-Critic
3	Dr. Nisha Shukla	Professor
4	Dr. Sandhya Vishwakarama	Assistant Professor
5	Dr. Archana Jha	Professor
6	Dr. Chandra Jyoti Verma	Assistant Professor
7	Dr. Kaushalya Shastri	Assistant Professor
8	Dr. Kailash Sharma	Professor
9	Prof. Khem lal Rawte	Assistant Professor
10	Dr. Abhinesh Surana	Professor

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Lecture/Workshop/Seminar	Special Name of Expert
2015-16	1. Lecture on 'कम्प्यूटर और हिन्दी'	1. Shri Sharad Kokas
	2. Lecture on '*हिन्दी कविता मुक्तिबोध के बाद'	2. Dr. Siyaram Sharma
	3. Lecture on 'शिक्षा, संस्कृति और समाज'	3. Shri Ashok Bajpeyi
	4. Lecture on 'प्रेमचंद के साहित्य पर गीता का प्रभाव'	4. Dr. Raghuvver Dayal Singh
	5. Lecture on 'भारतीय साहित्य'	5. Dr. Mirdula Shukla
	6. Lecture on 'भीष्म साहनी जन्मशती'	6. Shri Tejindar Gagan
2014-15	1. Lecture on 'प्रेमचंद का साहित्य'	1. Shri Prabhakar Choube
	2. Lecture on 'छत्तीसगढ़ के लोक पर्व एवं लोकाचार'	2. Dr. Gorelal Chandel
	3. Lecture on 'साहित्य और शिक्षा'	3. Dr. Jeevan Yadu
	4. Lecture on 'प्रेमचंद का जीवन और साहित्य'	4. Shri Vishveshver
	5. Lecture on 'प्रेमचंद का साहित्य'	5. Dr. Nalinee Shrivasta
2013-14	1. Lecture on 'भाषा की सामाजिक उपादेयता तथा हिन्दी भाषा का सामाजिक प्रकायात्मक पक्ष'	1. Dr Shail Sharma
	2. Poetry Recitation	2. Shri Dinesh Kushavaha
	3. Lecture on 'प्रेमचंद प्रतिबद्धता और प्रासंगिकता'	3. Prof. Ambarish Tripathi
2012-13	प्रेमचंद के साहित्य का यथार्थ परक और मनोवैज्ञानिक स्वरूप	1. Dr. Maya Arora
2011-12	Lecture on 'छत्तीसगढ़ी साहित्य'	1. Dr. K. S . Sarva
	Lecture on 'समकालीन यथार्थ और कथा साहित्य'	2. Prof. Vinod Kumar Sharma
	Lecture on 'समकालीन यथार्थ और साहित्य'	3. Dr. K. S. Prakash
	Lecture on 'नागार्जुन का काव्य'	4. Dr. Subhardara Rathor

33. List the teaching methods adopted by the faculty for different programmes.

For Undergraduate Classes

Usually conventional method of teaching ie. lecture method is adopted for teaching undergraduate students. The faculty members purposely attempt to make it more and more interactive and comprehensible by involving students in the learning process, through various ways and means.

For Postgraduate Classes way

The postgraduate students are taught with a different instructional strategy. Teaching methods adopted for them are as follows :

- Mostly the conventional classroom lecture method is practiced. The **Mastery Learning Strategy** is exercised in the classrooms that suggests different steps, leading the students to have mastery over the subject.
- In teaching process ICT tools are also used to some extent.
- Films based on literary works had been shown.
- Educational trips to places of cultural and literary importance were organized so as to make the students aware and sensitize them towards cultural heritage and literary legacy of the nation.
- In the classroom, students are constantly motivated to make queries regarding the subject matter, so that they can follow the instructions in a proper way.

For Research Scholars

The Scholars pursuing research works in the department are instructed, during their course-work, in such a way as to make them aware of the recent trends and methodological advancements in research.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The learning outcomes are monitored through continuous and comprehensive appraisal in respect of academic performance of the learners. The programme objectives are realized to some extent when students prove the ability to express their views convincingly, independently and confidently during seminar presentations. The department constantly strives to ensure that students must perform excellent in semester and annual examinations so that they could achieve success in getting jobs by virtue of good academic performance.

35. Highlight the participation of students and faculty in extension activities.

With a purpose to instill human and social values amongst students and to make them responsible citizens, community orientation and outreach activities are carried out by the department.

- Awareness camps in three villages namely *Litiya*, *Semariya* and *Shivkokadi*, about 30 kms. away from district headquarter were organized by the department. Meetings with villagers were held in which issues like environmental awareness, water conservation, cleanliness, saving the girl child etc were discussed. In order to generate awareness among village-folk towards these issues, Pamphlets were distributed door-to-door by the students.
- Besides this, Poet Gatherings were organized under the umbrella of Academia-Community Interface Programme (ACIP) adopted by the college, giving an opportunity to the poets of surrounding rural places to articulate

their experience and emotions in local dialect, *Chhattisgarhi*. Poems were also recited by the students. The faculty members, utilizing the expertise in the subject reviewed the poems in their speech. The platform provided to *Chhattisgarhi* poets proved to be very significant as the department is committed to encourage literary creativity in local dialect.

- Poetry Workshops had been organized in and outside the college campus (at Khalsa Higher Secondary School, Durg) under ACIP to encourage school and college students in order to get oriented them towards reading and writing poetry.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities	
2015-16	Shri Sharad Kokas Dr. Siyaram Sharma Shri Ashok Bajpai Dr. Raghuvveer Dayal Singh Dr. Mridula Shukla Shri Tejendar Gagan	Lecture on कम्प्यूटर और हिन्दी Lecture on हिन्दी कविता मुक्तिबोध के बाद Lecture on शिक्षा, संस्कृति और समाज Lecture on गीता और हिंदी साहित्य Lecture on भारतीय साहित्य Lecture on भीष्म साहनी
2014-15	Dr. Shraddha Chandrakar Dr. Shraddha Chandrakar Dr. Jaiprakash Sao Shri Prabhakar Choubey Dr. Gore Lal Chandel Dr. Jeevan Yadu Dr. Jaiprakash Sao	Lecture on छत्तीसगढ़ी लोक नाट्य परम्परा Guest lecture at Swami Swarupanand College Lecture on समकालीन हिन्दी कविता में स्त्री (मुख्य वक्ता) Guest Lecture on प्रेमचंद का साहित्य Guest Lecture on छत्तीसगढ़ी लोक पर्व Guest Lecture on छत्तीसगढ़ी लोकाचार Key note address in a session on 'Hindi short story' at Raipur Literary Festival.
2013-14	Dr. Krishna Chatterjee Shail Sharma	Lecture on रविन्द्रनाथ टैगोर की सर्जनात्मकता के विविध आयाम at a seminar organized by Indira Kala Sangeet Vishwavidyalaya Khairagarh. Guest Lecture on भाषा की उपादेयता तथा हिन्दी भाषा के सामाजिक प्रकार्य
2012-13	Dr. Maya Arora	Lecture on प्रेमचंद
2011-12	Dr. Shraddha Chandrakar Dr. Jaiprakash Sao Dr. K.S. Sharwan Dr. Vinod Sharma Dr. Subhadra Rathore	Lecture on कामकाजी महिलाएं एवं प्रस्थिति Lecture on स्त्री अस्मिता का संघर्ष और आधुनिक हिन्दी साहित्य at a seminar organized by Govt. college Bhilai-3 Lecture on छत्तीसगढ़ी साहित्य Lecture on आधुनिक हिन्दी उपन्यास Lecture on नागार्जुन का काव्य

37. State whether the programme /department is accredited/ graded by other agencies. Give details.

The department has not been evaluated and accredited by any agency so far.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

- Rich faculty in terms of qualification and experience, for all the faculty members hold Ph.D. degree and most of them have experience of about 30 years in teaching.
- Adequately rich library in the department which is freely accessible to the PG students.
- Good collection of reference material in the central library, particularly the old books published way back in 1950s and around, which is very helpful for the students pursuing research.

Strengths of the department

All faculty members holding Ph.D. Degree

Rich Departmental Library

Enlightened faculty and go Research facilities

Weaknesses of the department

No research Project is going on

Very poor communication proficiency of student

No seminar/workshop held during the session

Opportunities

Interaction of students with local literary Enha

Interaction with teachers of other discipline

Rich knowledge resource at library

Challenges

Enhancing research activities

Enhancing communication skill of student

Promoting inter discipline activities

39. Future plans of the department.

To continue organizing workshop on poetry and lectures of literary practitioners , pods , writers etc

To conduct special classes for NET-SLET aspirants.

To organize regular language-workshop Focusing on syntactical and phonetic use of Hindi Language .

Poster competition based on poems of major poets.

Literary quiz , group discussion on literary issues

Film shows based on literary works.

Papers in National and International Journals

चन्द्राकर, श्रद्धा, हिंदी व्यंग्य विधा की विकास यात्रा एछत्तीसगढ़ विवेक 43, 55&57 (2013).ISSN:0972-9909

सुराना, अभिनेष, साठोत्तरी हिंदी कहानियों में नगरबोध, शोध-संकल्प 09] 80&81(2014). ISSN:2277-3718

सुराना, अभिनेष, हिंदी गीति काव्य के संदर्भ में नारायण लाल परमार की प्रगति चेतना, शोध-संकल्प,68,94-96, (2014). ISSN:2277-3718

सुराना अभिनेष, शोध संप्रेषण में हरिशंकर परसाई रचनात्मकता एक मूल्यांकन, शोध संप्रेषण 9 138&139, (2014).ISSN:097-6459

Evaluative Report of the Department of English

Identified as 'Highly Rated and Star Performing Department' under UGC CPE scheme, the department of English envisions to nurture love, curiosity and interest for the subject in the students who are otherwise rather wary and apprehensive of the subject. Assisted by a language lab, which is well equipped with ICT facilities, high quality software, books, CDs and DVDs, teachers endeavour to make English learning easy and interesting. The department also aspires to sensitize students towards English literature and to inculcate cross-cultural literary insight in them. As a research centre the department is known for high standards of research involving both literature and language.

1. Name of the Department & its year of establishment : **English-1958**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A./B.Sc./B.Com./BCA/lang/lit.
PG Courses	M.A.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved – The department does not offer any inter-disciplinary course and is also not associated with other department in courses offered by them.
4. Annual/ semester/choice based credit system
 - Under graduate course – Annual System
 - Post graduate course - Semester System
5. Participation of the department in the courses offered by other departments– The department does not directly participate in the courses offered by other departments. But English, as a language, is included in all the UG Syllabi – B.A., B.C.A., B.Sc. and B.Com. as a mandatory subject.
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	01
Asst. Professors	07	07

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Students guided for the last 4 years	Ph.D. for
Dr.Mita Chakraborty	M.A. Ph.D.	Professor	Indian writing in English	35	-	
Dr. N.R. Pathak	M.A. Ph.D.	Professor	--do--	32	03	
Dr.Qamar Talat	M.A. Ph.D.	Professor	--do--	32	09	
Dr.Surekha Jain	M.A. Ph.D.	Professor	--do--	30	-	
Dr.Suchitra Gupta	M.A. Ph.D.	Professor	--do--	30	-	
Dr.Mercy George	M.A, M.Phil. Ph.D.	Asstt. Professor	British Drama/ Phonetics	22	-	
Dr.Meena Maan	M.A. M.Phil. Ph.D.	Asstt. Professor	Indian Writing in English	27	-	
Dr.Tarlochan Kaur	M.A. Ph.D.	Asstt. Professor	Afro American literature/Linguistics and Phonetics	27	-	

8. Percentage of classes taken by temporary faculty– programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	15%
	Postgraduate	Nil
2014-15	Undergraduate	Nil
	Postgraduate	Nil
2013-14	Undergraduate	Nil
	Postgraduate	Nil
2012-13	Undergraduate	Nil
	Postgraduate	Nil
2011-12	Undergraduate	Nil
	Postgraduate	Nil

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	322:01
	Postgraduate	05:01
2014-15	Undergraduate	344:01
	Postgraduate	04:01
2013-14	Undergraduate	363:01
	Postgraduate	04:01
2012-13	Undergraduate	344:01
	Postgraduate	06:01
2011-12	Undergraduate	284:01
	Postgraduate	04:01

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled - N.A.

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	Funding Agency (National/International)	Grants received Rs
Minor Project “Excellence Models for Teachers in the changing scenario with particular reference to teachers of English”	Dr.Mercy George	UGC	1,25,000/-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - N.A.

13. Research facility / centre with

- state recognition Yes
- national recognition Nil
- international recognition Nil

14. Publications:

- * Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	02
International	06

- * Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	-	-	-	-
2	Books without ISBN No.	-	-	-	-
3	Edited books	978-93-85528-20-0	Subaltern Voice in Indian English Novels	Dr. Q.Talat	Y-King Books Jaipur
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

- Citation Index – range / average Nil
- SNIP Nil
- SJR Nil
- Impact factor – range / average Nil
- h-index Nil

15. Details of patents and income generated Nil

16. Areas of consultancy and income generated

Consultancy Service	Income generated
Nil	

17. Faculty recharging strategies

Aware of the importance of regular up gradation with latest trends and strategies in literature, criticism and language, the department makes a conscious effort for the enrichment of its faculty. To this effect workshops by renowned scholars are organized on a regular basis. The conscious faculty also partakes in the Refresher Courses organized by the UGC.

Active participation is made by them not only in subject related seminars and workshops but also in seminars and workshops organized by other departments of the college and other institutions.

Programme	No. of Faculty benefited
Orientation/Refresher Course	01
Seminar	02
Workshop	08
Others	08

18. Student projects

a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	Nil
Undergraduate programme	Nil

b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	Nil
Undergraduate programme	Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/Doctoral/Post doctoral fellows/ Students	Year
1	Rajiv Gandhi National Fellowship	Indrani Borkar- Research Fellow	2012

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

The students taking admission in the college have very little knowledge of English language. The department makes continuous efforts to improve upon the communication skill of these students. To spread awareness of English language among students and to make them aware of the basic nuances of English grammar workshops for students on enhancement of communication skills are regularly organized. Barring one, which was UGC sponsored, the workshops are mostly organized at college level. Apart from this the department also invites faculty from management schools to facilitate the learning of communication skills of the students.

Furthermore students coming to this college mostly lack in computer proficiency. The department realizing the gravity organized a workshop on “Developing Soft Skills” which aimed at improving the soft skills of the students.

21. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.	737	287	284	69.51	76.54
B.Com.	917	433	412	99.10	100
B.Sc.	814	725	526	97.48	100
BCA	125	31	38	40	80
M.A.	40	16	24	100	100

22. Diversity of Students

Name of the Course	% of students from the college	% of from the state	% of from other States	% of from other countries
B.A.		99.99	0.01	Nil
B.Sc.		99.98	0.02	Nil
B.Com.		99.99	0.01	Nil
B.C.A.		100	Nil	Nil
M.A.	2	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	Nil
Defense Services	Nil
NET	01
SLET	01
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	Around 4%
PG to M.Phil.	Around 2%
PG to Ph.D.	2%
Ph.D. to Post-Doctoral	-
Employed	Nil
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	1%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	62.5%
from other universities within the State	None
from other universities from other States	37.5%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Ph.D. – 01

27. Present details about infrastructural facilities

a. Library

The departmental library is equipped with a sufficient number of good reference and text books, that are easily accessible for PG students. This apart the English section in Central library too, has a large collection of both reference and text books.

No. of text books	150
No. of reference books	400
No. of journals/magazines/proceedings	Nil
No. of e-books	Nil
Xerox copies of out of print/rare books	Nil
No. of CDs/DVDs	26
Lab. Manuals	None

- b. Internet facilities for staff and students –Yes the department has internet facility and PG students are motivated to make use of it for preparing their power point presentation and home assignment.
- c. Total number of class rooms - Nil
- d. Class rooms with ICT facility - Nil
- e. Students' laboratories - One
- f. Research laboratories - Nil
28. Number of students of the department getting financial assistance from College.
Students obtain scholarship as per the norms of the government of Chhattisgarh.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. - No
30. Does the department obtain feedback from
- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Before the meeting of Board of studies feedback is taken from the faculty members and accordingly minor changes are made in the curriculum of P.G. course and in the evaluative pattern .
- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Feedback is taken by IQAC from the students and accordingly feasible changes are made in the curriculum and evaluative pattern.
- c. alumni and employers on the programmes and what is the response of the department to the same?
The department makes profitable use of the suggestions given by the alumni.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr. Alim Khan	Professor
2	Dr. Amrita Kasture	Professor
3	Dr. Tapas Mukherjee	Astt. Professor
4	Dr. Anita Shankar	Astt. Professor
5	Dr. Rajneesh Tiwari	Astt. Professor
6	Dr. Nigar Ahmed	Astt. Professor
7	Prof. Sadhna Parekh	Astt. Professor

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2016	Workshop on 'Communication Skills'	Dr. Chandra Shekhar
2016	Invited lecture on 'Psycho Analytic Insight into the Study of Literature'	Dr. Rachita Shrivastava
2016	Invited lecture on Edward Said's Orientalism	Dr. Uma Ram
2016	Invited lecture on Henrik Ibsen's 'A Doll's House'	Dr. Uma Ram
2015	Invited lecture on T.S. Eliot's 'Wasteland'	Dr. Uma Ram
2015	Invited lecture on Bharat Muni's 'Natyashastra'	Dr. Uma Ram
2015	Invited lecture on 'Colonial Studies'	Dr. J.P. Sao
2015	Invited lecture on 'Phonetics and English Phonology'	Dr. Chitranjan Kar
2013	Workshop on 'Enhancement of Communication Skills'	Dr. Tausif
2011	Invited lecture on 'Toru Dutt – A Poet'	Dr. A.N. Diwedi
2011	Invited lecture on 'Phonetics and Mechanics of English language'	Dr. Chitranjan Kar
2011	Workshop on 'Communication Skills'	Le Magnus School of Business Management.

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	<ul style="list-style-type: none"> • Lecture Method • Language Translation Method • Conventional Blackboard teaching method. • Text reading • Group discussion • Home Assignments
PG Programme	<ul style="list-style-type: none"> • Lecture method • Audio lingual teaching. • ICT and PowerPoint • Visual Aids. • Group discussion • Seminars • Home Assignments

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The fulfillment of programme objectives and monitoring of learning outcomes are done through Continuous and Comprehensive Appraisal method. The department continuously motivates its students to communicate in English, as good communication skills in English is a prerequisite to good placements.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Visit to village <i>Khapri</i>	05 faculty members	The faculty members interacted with the school Head Master and School Teachers and discussed the issues relating to adoption of the school by the department.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	“Beyond syllabus scholarly activities” of the department
2016	Two days workshop on ‘Communication Skills.’
2015	Seven days workshop on ‘Developing Soft Skills for PG Students’
2015	Ten days workshop on ‘Know the Basics of English Grammar and Correct your Language.’
2015	Two days workshop on ‘Enhancement of Communication Skills’
2014	Three days workshop on ‘Proficiency Development in English’ for PG students (Deptt of Physics)
2013	Two days workshop on ‘Enhancement of Communication Skills.’
2013	Three Days Language Workshop for college teachers.
2011	Two days’ Workshop on English language.
2011	Two days’ workshop on Communication skills “Shikhar” organized by Le Magnus School of Management.

37. State whether the programme/department is accredited/ graded by other agencies. Give details. - No
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Highly qualified and experienced faculty.
- Recognised research centre of Pt. R.S.S. University Raipur.
- Well equipped language lab.
- Good library facility excelling both in quality and quantity of books.
- Caters to the diversified course offered in the college.

Weaknesses of the department

- Inadequate teacher student ratio.
- This improper ratio poses a big hurdle for the department to run innovative programmes.
- Majority of students admitted in the college lack very basic knowledge of English language.
- Disinclination of students to attend the language class regularly.
- Inhibition of the students to communicate in English.

Opportunities

- Experienced faculty, rich library, well equipped language lab etc. gives students an opportunity to increase their proficiency in English.
- As good as 4000 students study English as a second language. This gives the department a good opportunity to create awareness towards language among the students.
- To create an atmosphere of literary sensibility and aesthetic sensitivity so that the energy of the students can be diverted more towards literary activities like poetry recitation, enactment of popular scenes of the plays, story telling, elocution contest and creative writing.
- The department caters not only to the students of the college but also to nearby colleges and schools to bring language awareness among the students.
- To widen the horizon of learning and understanding of the subject the students can be exposed to inter disciplinary activities

Challenges

- To create interest in the students for language acquisition.
- To remove hesitation of the students to express themselves and to draw them out of their shells.

- To discourage the students to make use of sub standard study material available in the market in the form of guides.
- To run special language proficiency classes on a regular basis.
- To inculcate reading habit in the students, which forms the basis of language acquisition and knowledge.

39. Future plans of the department.

- Regular remedial classes to improve the basics of English language.
- Adoption of nearby school for creating awareness towards English as a language .
- Establishment of English movie club.
- To make English language acquisition interesting by organizing regularly various competitions like storytelling, prose/poetry recitation, elocution contest, skit competition etc.

Papers in National and International Journals

Department of English :-

Talat, Q. Implications of Communication Skills of Effective Teaching. *Shodh Sampreshan* 6, 3- 5 (2013).ISSN: 097-6459

Talat, Q. Interpretations of ‘Savitri by Toru Dutt And Sri Aurobindo: A Study of Literary Vision. *The Indian Journal of English Studies*. 50, 176- 89 (2013).ISSN: 0379-0037h

George, M. The World of the Absurd Characters in the Plays of Pinter. *Mind and Society*. 2 (1), 7- 11 (2013).ISSN : 2277-6907

George, M. Pinter’s Theatre: A Theatre of Language. *Research Analysis and Evaluation*. 6 (60- 61), 18- 20 (2014). ISSN : 0975-3486

George, M. Language of Silence in the Plays of Harold Pinter. *International Journal of English Language, Literature and Humanities*. 2 (6), 79- 87 (2014). ISSN : 2321-7065

Maan, M. The Emergence of New Woman in the Novels of Shobha De. *Remarking: Social Research Foundation; An International Journal* 6, 75- 76 (2014).). ISSN : 0976-8602

Sandhu, T. K. The Emergence of New Woman in the Novels of Shobha De. *Remarking: Social Research Foundation; An International Journal* 6, 75-

Evaluative Report of the Department of Economics

The Department of Economics has adapted itself successfully to the challenging task generating efficient personals .Through, various academic and extension programmes and research activity the department envisions to enable its students to lead a secure and respectable life. This apart, the department also conducts interdisciplinary training programmes for the further enhancement in their personality.

1. Name of the Department & its year of establishment - **Economics, 1958**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A.
PG Courses	M.A.
Research degree Course	Ph. D.

3. Interdisciplinary courses and departments involved

-The department does not offer any interdisciplinary course .

4. Annual/ semester/choice based credit system

Under graduate course – Annual System
Post graduate course – Semester System

5. Participation of the department in the courses offered by other departments-
The department does participate in the courses offered by other departments.

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professor	01	01
Asst. Professor	05	03

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Shikha Agrawal	M.A. Ph.D.	Professor	Micro & Macro Economics	33 Years	Nil
Dr. A.K. Khan	M.A. Ph.D.	Professor	Macro Economics	33 Years	01
Dr. Dipshikha Vij	M.A. , M.Phil, Ph.D.	Asst. Professor	Quantitative , Statistics & Industrial Economics	27 Years	Nil
Dr. K. Padmavati	M.A. , M.Phil, Ph.D.	Asst. Professor	Labour, Industrial & International Economics	27 Years	02
Dr. L.K. Bharti	M.A. , M.Ed., M.Phil, Ph.D.	Asst. Professor	Micro & Indian Economics	27 Years	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	25%
	Postgraduate	33%
2014-15	Undergraduate	25%
	Postgraduate	33%
2013-14	Undergraduate	Nil
	Postgraduate	Nil
2012-13	Undergraduate	Nil
	Postgraduate	Nil
2011-12	Undergraduate	Nil
	Postgraduate	Nil

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	33:1
	Postgraduate	03:1
2014-15	Undergraduate	36:1
	Postgraduate	07:1
2013-14	Undergraduate	41:1
	Postgraduate	08:1
2012-13	Undergraduate	52:1
	Postgraduate	05:1
2011-12	Undergraduate	48:1
	Postgraduate	09:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled - N.A.

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. – Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - Nil

13. Research facility / centre with

- State recognition Yes
- National recognition -Nil
- International recognition -Nil

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	11
International	04

a. Books with ISBN numbers with details of publishers –Nil

- b. number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) -Nil
- c. Citation Index – range / averageNIL.....
- d. SNIPNIL.....
- e. SJRNil.....
- f. Impact factor – range / averageNil.....
- g. h-indexNil.....
15. Details of patents and income generatedNil.....
16. Areas of consultancy and income generated – Nil--
17. Faculty recharging strategies
-Promote and motivate to staff to participate various workshop, seminar, refresher and orientation, different training programs.

Programme	No. of Faculty benefited
Orientation/Refresher Course	Nil
Seminar	42
Workshop	18
Others	05

18. Student projects
- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%
Undergraduate programme	45%

- b. Percentage of students doing projects in collaboration with industries/institutes Nil
19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students -Nil

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter-national Level	Topic/Subject	Funding Agency	Outstanding participants
Workshop	16.02.16	National	“Environmental Cost of Economic Development”	UGC	04

21. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.	135	62	61	93%	92%
M.A.	40	10	10	100%	100%
Ph.D.	10	03	01		

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of Students from other Countries
B.A.	-	99.99	.01	Nil
M.A.	55	95	05	Nil
Ph.D.	45	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	01
Defense Services	Nil
NET	01
SLET	Nil
GATE	Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	48%
PG to M.Phil.	30%
PG to Ph.D.	02%
Ph.D. to Post-Doctoral	Nil
Employed Campus selection	Nil
Employed Other than campus recruitment	24%
Employed Entrepreneurs	27%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	80%
from other universities within the State	Nil
from other universities from other States	20%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. 01

27. Present details about infrastructural facilities

a) Departmental Library

No. of text books	5040
No. of reference books	510
No. of journals/magazines/proceedings	04
No. of e-books	Nil
Xerox copies of out of print/rare books	Nil
No. of CDs/DVDs	Nil
Lab. Manuals	Nil

- b) Internet facilities for staff and students **Yes**.....
- c) Total number of class rooms **05**.....
- d) Class rooms with ICT facility Nil.....
- e) Students' laboratories Nil.....
- f) Research laboratories Nil.....

28. Number of students of the department getting financial assistance from College.
- Students get financial as per the norms of the government of Chhattisgarh.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. - Nil
30. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Suggestions and information related to curriculum is placed in front of Board of Studies-Economics and changes are done as per requirement of students and society. Similarly changes are made in teaching_learning evaluation.
 - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
The department assists in the centralized feedback of students on staff, curriculum as well as teaching-learning-evaluation conducted by IQAC. This facilitates the adoption of suitable measures for all round development of students.
 - alumni and employers on the programmes and what is the response of the department to the same?
Yes, the department welcomes their suggestions and utilizes them for the betterment of the students.
31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr.S.R. Katare	Retd. Principal
2	Ms. Neeta Lodhi	Ex. Mayor, Bhilai
3	Shri K.S. Rao	Retd. Prof.
4	Dr. Anand Vishwakarma	Principal, Govt. College
5	Shri Uttam Kumar	S.I. (Police)
6	Mrs. Daneshwari Sinha	Lecturer, Govt. High School
7	Shri Roshan Sahu	B.S.P, Bhilai
8	Shri Santosh Bari	Central Railway Employee
9	Shri Hemant Kumar	Asst. Prof.
10	Shri J.S. Viridi	Joint Director State Planning Commission

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	1. Indian Tax System 2. Budget 2016 and Taxes 3. Sustainable Development 4. <i>Bharat ka Arthik Paridrishy</i> 5. <i>Yojna Aayog ki Karypranali</i>	Shri Harsh Jain Shri M.C. Jain Dr. R.N. Singh Dr. Hanumant Yadav Dr. J.S. Viridi
2014-15	Importance of Economics	Dr. C. Nathwani
2013-14	Research Methodology and Its applications	Dr.C. Nathwani
2012-13	<i>Bharat me Pratyaksh Punji Nivesh (FDI)</i>	Dr. R. Bramhe
2011-12	1.Economic policies 2.Quantitative Techniques	Dr. Shailesh chaubey & Dr. Pendse

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Group Discussion 2. Conventional lecture method 3. LCD and Power Point Presentation
PG Programme	1. Group Discussion 2. Quiz 3. Paper Presentation 4. Chalk and Talk Method. 5. LCD and Power Point Presentation.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Through regular curriculum revision and designing, group discussions, seminars and workshops, result analysis, feedback from students, society and other stake holders the programme objectives are monitored.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
1. Computer Training Programme	20	Active learning
2. Educational and Industrial Tour	33	Enthusiastic and inquisitive learning.
3. <i>Jagrukta Abhiyan</i>	30	Active participation
4. Research Oriented Survey	28	Data collection was done by students

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities (Guest lecturers)
2015-16	Indian Tax System Budget 2016 and Taxes Sustainable Development <i>Bharat ka Arthik Paridrishya</i> <i>Yojna Aayog ki Karypranali</i>
2014-15	Importance of Economics
2013-14	Research Methodology and Its applications
2012-13	<i>Bharat me Pratyaksh Punji Nivesh (FDI)</i>
2011-12	Economic policies Quantitative Techniques

37. State whether the programme/department is accredited/ graded by other agencies. Give details. --No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Highly qualified and experienced faculty
- Rich library
- Promotes research
- Good job opportunity in public sector

Weaknesses of the department

- Low level of subject awareness in the students
- Lack of Infrastructural Facilities.
- Disinclination in students to read text books

Opportunities

- Availability of grants from various agencies
- Faculty Development programme
- Good collection of books in Central Library for research scholars

Challenges

- Development with limited infrastructural facility
- Getting good results from slow learners
- Promoting research activity
- Improve ICT efficiency of students.

39. Future plans of the department.

1. Seminar and workshop for the faculty and students.
2. Environment awareness programme.
3. Educational visit to State Assembly during budget session.
4. Visiting schools and making the school students aware of different Government policies and plans
5. Training programmes on the technicalities of 'Start Ups' and 'Entrepreneurship.'

Research Publications Detail

Dr. Agrawal Shikha

Authors	Title	Name of Journal/Book	Volume/Edition	ISSN No./ISBN No.	Year	Page No.
Agrawal Shikha	“Effect of Trade Liberalization on Indian Agricultural Sector and Rural Marketing.”	Lab to Land (National)	Vol. 41X0-13A	0975-282X	2012	61 to 63
Agrawal Shikha	“A Critical Analysis of Indian Economics and Government Policy”	Research Analysis and Evaluation (International)	Vol. III Issue.- 28	0975-3486	2012	42-43
Agrawal Shikha	“Current Trends In Human Resource management.”	Research Analysis and Evaluation (International)	Vol. III Issue- 35	0975-3486	2012	11-12

Agrawal Shikha	“Effect of share Market in Indian Economy A critical Analysis”	Shodh Samiksha Aur malyankan (National)	Vol. IV Issue-43	0974-2832	2012	14-15
Agrawal Shikha	“Human Resources Strategies in the Era of Recession.	Research Link. (National)	IX(12) Issue-83	0973-1628	2011	135-136

Dr. K. Padmawati

Year	Title	Name of Journal/Book	ISSN No./ISBN No.	Volume/Edition
2015	1. योजना काल में सकल घरेलू उत्पाद के उद्योगवार अंशदान का विश्लेषण	Vidyawarta	ISSN -2319-9318 151-153	Issue-09 Vol-02 Jan to March 2015
2014	2. योजना काल में भारत का विदेशी व्यापार संतुलन दशा व दिशा	रिसर्च एनालिसिस एण्ड इवैल्यूएशन	ISSN : 0975-3486	April 2014 Vol-V51-52
2014	3. Gender effect on unorganized Apparel store Retailer perception towards Impact of organized Apparel Store.	Management trends and issues for sustainable Business Development	ISBN : 978-93-5174-461-6	29 November 2014 55-63
2012	4. Effective methods to present communication	Lab to Land	ISSN No 097-282 X	July – September

	thoughts & Idias : In Teaching		829-831	r 2012
2012	5.जलवायु परिवर्तन का अर्थव्यवस्था पर प्रभाव	Mind & Society	ISSN – 2277-6907 126 to 129	July – September 2012
2012	6. छत्तीसगढ़ में आदिवासी विकास की स्थिति	Shodh-Prakalp	ISSN- 2278-391177 to 78	Jan-March 2012
2012	7. Effect of five year plans in the Economical growth in India	रिसर्च एनालिसिस एण्ड इवैल्यूएशन	ISSN-0975-3486 51-52	Jan 2012 Vol-III Issue-28
2012	8. Indian rural marketing strategies : An overview	Lab to Land	ISSN No.- 0975-282X 120-121	Vol-04 January - 2012
2012	9. The Relationship between long Term fiscual discipline and Economic performance	Research Link	ISSN-1628 119-120	Issue-88 Vol-x(5)

Evaluative Report of the Department of Sociology

‘Star Performer’ Department of Sociology aspires not only to provide quality education but also to promote awareness for social concerns and community service among the students. To this effect the department has adopted village ‘Thanod’ and carries out various out reach activities in the village for the upliftment of the villagers. The department also strives to create socio-friendly atmosphere in the society at large. In this context it has taken some initiatives like spreading awareness towards Naxalites and Naxalism’ and setting up of ‘Carrier and Couselling Cell’. This cell tries to channelize the energy of the youth in constructive and positive arenas.

1. Name of the Department & its year of establishment **Sociology ,1985**
2. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A.
PG Courses	M.A.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved

Course	Departments involved
	-

4. Annual/ semester/choice based credit system

Under graduate course (Annual)	–	Annual System
Post graduate course (Semester)	–	Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	02
Asst. Professors	02	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.R.K.Chaubey	M.A. Ph.D.	Professor	Indian Society	31 yrs	Nil
Dr. Ashwani Mahajan	M.A. Ph.D.	Professor	Criminology	29 yrs	02
Dr. Suchitra Sharma	M.A. M.Phil M.Sc. Ph.D.	A.P.	Industrial Sociology and Women's Studies	35 Yrs.	01 awarded 02
Dr. Sapana Sharma	M.A. Ph.D.	A.P.	Tribal and Rural Studies	25 rs.	05

8. Percentage of information classes taken by temporary faculty – Nil

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	140:1
	Postgraduate	5:1
2014-15	Undergraduate	105:1
	Postgraduate	4:1
2013-14	Undergraduate	96:1
	Postgraduate	3:1
2012-13	Undergraduate	98:1
	Postgraduate	3:1
2011-12	Undergraduate	112:1
	Postgraduate	3:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled –NA

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/ International)	Grants received
01-Minor Project	Dr. Ashwini Mahajan	UGC	1,07,000
01-Minor Project	Dr. Suchitra Sharma	UGC	85,000

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Project	Name of Investigator	funding Agency (National/ International)	Grants received
One major Project			
Empowerment of rural women and non Government Organization	Dr. Suchitra Sharma	ICSSR	851400.00

13. Research facility / centre with

- state recognition Yes.....
- national recognition-.....
- international recognition-.....

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	50
International	07

*Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	978-93-7831-377-06	Rural Development and Non Government Organization	Dr. Suchitra Sharma	Manak Publication New Delhi
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

*number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

* Citation Index – range / average ...NIL.....

* SNIPNil.....

*SJR Impact factor – range / average2.8.....

*h-index N.A.

15. Details of patents and income generatedNil.....

16. Areas of consultancy and income generated -Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	
Seminar	04
Workshop	04
Others Short term course	02

18. Student projects :

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100%.
Undergraduate programme	-

- b. Percentage of students doing projects in collaboration with industries/ institutes -- Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1	Dr. Radha Krishnan Shikshak Samman	Dr. Suchitra Sharma by S.C. Council	2015
2	Ambedkar the Pride	Dr. Suchitra Sharma by S.C. Council	2014
3	Recognition	Dr Suchitra Sharma by Bhilai Nagar Nigam in the field of education Dr Suchitra Sharma by Lioness Club on Hindi Diwas	2015 2015
4		03 Students of Ph.D. received Rajeev Gandhi Fellowship	2014-15

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any.

- Nil

21. Student profile course-wise: 2014-2015

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.	334	121	134	68.4	85.4
M.A	04	02	02	100	100

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from the other state	% of students from the other countries
B.A	100	100	Nil	Nil
M.A	98	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services State PSC.	02
Defense Services	01
NET	06
SLET	01
GATE	

24. Student progression

Student progression	Percentage against enrolled
UG to PG	10%
PG to M.Phil.	
PG to Ph.D.	05
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	
• Entrepreneurs	05

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	02
from other universities within the State	02
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

One faculty member was awarded M.Sc. (Value education and Spirituality)

27. Present details about infrastructural facilities

a. Library Nil.....

No. of text books	-
No. of reference books	-
No. of journals/magazines/proceedings	-
No. of e-books	-
Xerox copies of out of print/rare books	-
No. of CDs/DVDs	-
Lab. Manuals	-

b. Internet facilities for staff and students **One computer with internet facility**

c. Total number of class rooms **05**.....

d. Class rooms with ICT facility **Nil**.....

e. Students' laboratories **Nil**.....

f. Research laboratories **Nil**.....

28. Number of students of the department getting financial assistance from College. NIL

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

-Nil

30. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Based on the feedback from the faculty feasible and profitable changes were introduced in teaching and evaluative pattern.

b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

-Student feedback is taken by IQAC and guided by the feedback the department makes the feasible changes not only in the curriculum but also in the teaching, learning and evaluation methodology.

- c. alumni and employers on the programmes and what is the response of the department to the same?

-The department welcomes their suggestions and takes suitable steps in the benefit of the department.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Dr. L.S. Gajpal	A.P. in R.S.V. School of Sociology
2	M. Haridas	Second Lt. in defence Service
3	Vinod langewar	Railway Sub Inspector
4	Mr. A.S. Birdi	C.G. Ministry
5	Manish Dhroov	C.G. Govt. Sub Inspector
6	Moh. Ajhal Quereshi	--“--
7	Anand Sharma	--“--
8	Lalita Sahu	Guest Lecturer
9	Prannyalata Gaikwad	--“--
10	Shahnaz Begam	--“--
	Laxman Mahilkar	--“--

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	RURBAN Scheme	Dr. Sharda Jain Assistant Professor Govt. Chhattisgarh College, Raipur
2014-15	Preperation of Net exam.	Dr. L.S. Gajpal Assistant Professor S.O.S. RSU Raipur
2013-14	Globalization and its impact	Dr. A.N. Sharma Assistant Professor Govt. College, Vaishali Nagar, Bhilai
2012-13	How to write res. Paper & Proposal project	Dr. Mahesh Shukla Assistant Professor Govt. T.R.S. College, Rewa M.P.
2011-12	Sociology of Aging problems	Dr. Arvind Joshi Professor B.H.U. Varanashi

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Chalk & Talk method 2. Interactive method 3. Monthly class tests
PG Programme	1. Seminar & Assignments 2. Power point Presentation 3. Group discussion

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Monitoring of learning outcome is done through internal assessment and presentation of seminar by students on topic from syllabus.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Library visit	10	Students benefitted with their exposure to new books and journals.
Village visit	10	Students participated actively with Faculty Dr. Suchitra Sharma
Attend Yuva Mahotsav	15	Students participated enthusiastically with Faculty Dr. Ashwini Mahajan and Dr. Suchitra Sharma

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	-
2014-15	-
2013-14	-
2012-13	-
2011-12	Blood donation (With NCC)

37. State whether the programme/department is accredited/ graded by other agencies. Give details.--Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Well designed need based curriculum
- Experienced and qualified faculty
- Recognised Research centre
- Awareness programmes towards clean and healthy society in rural areas.
- Guidance and counselling cell.

Weaknesses of the department

- Insufficient infrastructure
- Lack of e-class room
- Less number of computers in the department
- Lack of inter-disciplinary course
- Less job opportunity .

Opportunities

- Establishment of smart class room
- Increase in infrastructural facilities
- Enhancement of research facility
- Collaboration with other institutions for inter disciplinary course and research
- Introduction of Value Education based programme.
- Students can work with different NGOs taking up social issues.

Challenges

- To promote Interdisciplinary research
- The students are mainly from backward socio - economic background . It thus becomes difficult to motivate them towards intensive study and research.
- To wean students away from sub standard study material.
- Creating awareness among students to the needs of the society.
- To motivate and prepare students for NET / SET and other competitive examinations.

39. Future plans of the department.

- Enhancement of infrastructure
- Interdisciplinary research
- To start MSW course
- To promote socio-eco friendly atmosphere through value education.
- To prepare students to face the growing complexities in society.

Papers in National and International Journals

Department of Sociology :

Saraswat, S. शासन की योजनाएँ और दलित महिला, शोध-पत्रिका, 44 ,52 (2014). ISSN-0972-9909

Saraswat, S. व्यवसायिक प्रतिबल पर लिंग प्रभाव. *Mind and Society* 3, 78-81 (2014). ISSN: 227-6907

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Saraswat, S. Human Rights and Sexuality Minorities, *A Journal of Asia and Development* 12 , (2012). ISSN: 0973-3833

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- Sharma, S.** and Sharma , A. **छठ** जनाधिक्य एवं महिलायें : एक विश्लेषण *International Journal Advances Social Sciences* 2(1) 27-30 (2014) ISSN: 2347-5153
- Sharma, S.** and Sharma U. जनजातियों की बढ़ती भागीदारी : भिलाई इस्पात संयंत्र के विशेष संदर्भ में : *समाज वैज्ञानिकी* अंक 85 – 89(2014). ISSN: 0973-4201
- Sharma, S.** and Sharma , A. N. Challenges to the family : Divorce – The Shattering Marriages *International Journal of Humanities and Social Science Invention* 3(4), 19-26 (2014). ISSN: 2319-7714
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- Yadav, S.** Nagriya khsetra ki gandi bastiyon me nivasrat parivaron ka star – Bhilai Nagar ki gandi bastiyan-ek prateek adhyayan. *Shrinkhala* 02 (III) (2014). ISSN : 2349-980

Evaluative Report of the Department of Political Science

The vibrant Department of Political Science is devoted towards the proper comprehension of politics. It aspires to nurture students to be good and devoted citizens and promotes them for effective participation in Indian politics. With the purpose of giving exposure to the students and educating the masses campaigns regarding 'Voting Awareness' and 'Human Rights Awareness' are organized by the department. Research activity is a strong aspect of the department. The faculty has published extensively in the form of books, articles, and research paper. Naxalite problem, its cause, and eradication, Role of Women in Indian politics and Party system are the major thrust areas of research.

1. Name of the Department & its year of establishment - **Political Science 1958**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A.
PG Courses	M.A.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved NIL

Course	Departments involved
-	-

4. Annual/ semester/choice based credit system

Under graduate course (...B.A.....)	-	Annual System
Post graduate course (...M.A.....)	-	Semester System

5. Participation of the department in the courses offered by other departments NIL

Name of course	Departments involved
-	=

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	Nil
Asst. Professors	03	03

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. A. Shukla	M.A. Ph.D	Astt. Prof.	Advanced Political Theory	33 Years	Nil
Dr. L. Dhruw	M.A. Ph.D	Astt. Prof.	Indian Govt. & Politics	28 Years	08
Dr. V. Mandavi	M.A. . B.Ed., Ph.D.	Astt. Prof.	Indian Govt. & Politics	28 Years	08

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	23%
	Postgraduate	20%
2014-15	Undergraduate	23%
	Postgraduate	20%
2013-14	Undergraduate	Nil
	Postgraduate	NIL
2012-13	Undergraduate	Nil
	Postgraduate	NIL
2011-12	Undergraduate	Nil
	Postgraduate	Nil

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	114:1
	Postgraduate	12:1
2014-15	Undergraduate	131:1
	Postgraduate	11:1
2013-14	Undergraduate	166:1
	Postgraduate	13:1
2012-13	Undergraduate	109:1
	Postgraduate	13:1
2011-12	Undergraduate	121:1
	Postgraduate	7:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	N/A	N/A
Lab Attendant	N/A	N/A

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Chhattisgarh Main Naxaly Samasya Aur Rajnitik Dal	Dr. Vedvati Mandavi	National UGC	Rs. 1,69,500.00

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - Nil

Project	Name of Investigator	funding Agency (National/ International)	Grants received
-	-	-	-

13. Research facility / centre with

- state recognition Yes.....
- national recognition Nil.....
- international recognition Nil.....

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	13
International	07

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	89559-30-4	Janjati Rajniti Aur Netritv	Dr. Vedvati Mandavi	Mansi Pub. New Delhi
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	0973-3833	Sansdiy kary pranali visheshank	Dr. Vedvati Mandavi	The council for peace, Development and Cultural Unity
5	Monographs	-	-	-	-

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

- * Citation Index – range / average
- * SNIP
- * SJR
- * Impact factor – range / average
- * h-index

15. Details of patents and income generated

16. Areas of consultancy and income generated Nil

Consultancy Service	Income generated
-	-

17. Faculty recharging strategies

The department regularly adopts measures to update themselves with latest developments in the study of the subject.

Programme	No. of Faculty benefited
Orientation/Refresher Course	03
Seminar	03
Workshop	03
Others	-

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100% Project part of curriculum
Undergraduate programme	Nil

- b. Percentage of students doing projects in collaboration with industries/ institutes Nil

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Post graduate programme	-
Under graduate programme	-

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students Nil

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/Students	Year
1	Durg,Bhilai Mahila Samaj Maharashtra Mandal	Dr.Vedvati mandavi	2014
2	Rani Durgavati Mahila Mandal ,Raipur	Dr.Vedvati mandavi	2014
3	Akhil Bhartiya Dalit Sahitya C.G.Shakha	Dr.Vedvati mandavi	2015
4	Chhattisgarh Srijan Sanstha	Dr.Vedvati mandavi	2015

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	Date	National/ Inter- national Level	Topic/Subject	Funding Agency	Outstan ding particip ants
Seminar	25&26 Sep. 2006	National	Public Administration Institute Delhi	Public Administ ration Institute	100
Seminar	8&9 April 2006	National	Naxalite Problem in C.G.	UGC	120
Seminar	11&12 Nov.2011	National	Sansadiya Karya Pranali evam Vikalp	UGC	125
Workshop	5 Jan. 2016	National	भारत के विकास में महिलाओं का योगदान एवं चुनौतियां	UGC	121

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.	536	253	204		
M.A.	38	17	07	100%	100%

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.A.,	99.9	100	Nil	Nil
M.A.	50	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations -Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	18.3
PG to M.Phil.	12.5
PG to Ph.D.	6.5
Ph.D. to Post-Doctoral	-
Employed	-
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment Self Employed • Entrepreneurs 	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	70%
from other universities within the State	Nil
from other universities from other States	30%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. ---Nil--

27. Present details about infrastructural facilities

a) Library

No. of text books	256
No. of reference books	153
No. of journals/magazines/proceedings	03
No. of e-books	Nil
Xerox copies of out of print/rare books	Nil
No. of CDs/DVDs	-
Lab. Manuals	Nil

- b) Internet facilities for staff and students - Yes
- c) Total number of class rooms - 02
- d) Class rooms with ICT facility - Nil
- e) Students' laboratories - N/A
- f) Research laboratories - N/A

28. Number of students of the department getting financial assistance from College.-

All eligible students are getting scholarships like SC/ST/OBC & OTHERS.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, feedback is taken from the faculty in the meetings held in the department and accordingly feasible changes are implemented for the good of the students.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedback from the students is taken centrally by IQAC .Guided by the feedback the department implements appropriate changes in teaching learning and evaluation methodology.

c. Alumni and employers on the programmes and what is the response of the department to the same?

The department makes profitable use of the suggestions given by the alumni.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Shri Arun Vora	MLA Durg Urban
2	Mr. Tanvir Akil	National Coach Hockey
3	Ms Manju Dubey	Women Child Development Officer
4	Niraj Nagpal	Director All India Radio Ambikapur
5	Mr. Vivek Shukla	C.S.P. Durg
6	Mr. C.S. Dehre	IAS Chhattisgarh
7	Dr. R.S. Lahre	Astt. Professor Ambagarh Chauki
8	Dr. Rajendra Thakur	Astt. Professor Kalyan College, Bhilai
9	Akhileshwari Soni	Project officer Mahila Bal Vikas
10	Mrs. Punita Thakur	Jila Janpat Sadasya ,Durg .

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Workshop	Ms Lata Usendi (President nagrik Apurti Nigam, C.G.) Mrs. Harshita Pandey (President Mahila Ayoug, C.G.), Jaya laxmi Thakur (Ex-Vise Chanslar ,Bastar University), Dr. Y.K. Bharati (Retired Additional Director Higher Edu. Dep. C.G.)
2015-16	Special Lecture	Shri S.P. Sori, Dr, Shakeel Ahmed, Dr, Vibha Singh.
2014-15	“	Mr. Narendra Dugga
2013-14	“	Dr. D.N. Suryavanshi ,Shri Sri Narayan Singh, Smt. Girija Devi Maravi, Shri Ramesh k. Bakshi, Ms. Pushpalata Bhatpahari.
2012-13	“	Dr. Pardesi Ram Verma, Dr. Amita Bakshi, Dr. Shakeel Ahmed
2011-12	Dr. B.L. Fadiya	Dr. B.L. Fadiya, Shakeel Ahmed Dr. Anjani Shukla Dr. Vibha Singh

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Conventional Lecture Method 2. ICT 3. Weekly test, 4. Group discussion
PG Programme	1. Lecture Method. 2. Blackboard Method 3. Classroom Seminar. 4. Internal Assessment. 5. ICT 6. Study Tour

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

By way of internal assessment, group discussion, classroom seminars regular departmental meeting the learning outcomes are monitored.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Voter Awareness Programme	45	Interacted with the villagers of Banskuda .
Clean India Mission	08	Spread Awareness for personal and community hygiene in the slum area of Thagdabandha and village Mahamara

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Special lecture on ‘Elite Class’ at Dhamda Govt .College Dhamda by a faculty of the department.
2014-15	Special lecture on ‘Disarmament’ in Govt. College Dallirajhara by Dr. Vedvati Mandavi.
2013-14	Special lecture on ‘Advanced Political Theory ’at Govt. College Utai by Dr. Arvind Shukla.
2012-13	Special lecture on ‘System Theory of David Estien’ at Govt. College Patan by a faculty of the department.
2011-12	-Special Lecture On International Politics at Govt. Kamala ,College Rajnandgaon by Dr. Vedvati Mandavi.

37. State whether the programme/department is accredited/ graded by other agencies. Give details. -**Nil**
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Highly Qualified and experienced faculty
- Research oriented faculty with large no. of publications.
- Promoting political awareness among the Students..
- Rich library.
- Students exposure to grass root political working through in house projects.

Weaknesses of the department

- Insufficient infrastructure.
- Insufficient number of faculty.
- Attraction of students for sub standard bazaar guides.
- Lack of knowledge of English restricts students understanding of the global political scenario.
- Meager research awareness in the students.

Opportunities

- To design the curriculum, to an extent, according to the local needs
- To promote healthy political atmosphere.
- To spread voting awareness in the public.
- To promote leadership quality in the students.

Challenges

- To encourage students to read standard study material.
- To encourage them for research.
- To promote healthy politics in the college students union.
- To make society at large politically aware.
- To cater to large number of students taking admission in the subject with limited faculty.

39. Future plans of the department.

1. Development of departmental infrastructure.
2. Increase in Research activity.
3. Spreading political awareness in the tribal populated areas.
- 4 . Motivating the masses to become responsible citizens.
5. Nurturing leadership quality in the students.
6. Encouraging morality based politics.

Papers in National and International Journals

- ध्रुव लक्ष्मी, राष्ट्र निर्माण में बौद्धिक वर्ग की भागीदारी आज की महत्वपूर्ण आवश्यकता, शोध संकल्प, 16, 52–53 (2013) ISSN 2277-2715
- ध्रुव लक्ष्मी, सूचना का अधिकार एवं जवाबदेही, छत्तीसगढ़ी विवेक, 28 से 32 (2013). ISSN: 0972-9903
- ध्रुव लक्ष्मी, नगरीय समुदायिक विकास कार्यक्रम, शोध संकल्प 56–59 (2013), ISSN: 2277-2715
- ध्रुव लक्ष्मी, राजनीतिक एवं प्रशासनिक नेतृत्व, शोध संप्रेषण (अंतर्राष्ट्रीय पत्रिका), 61–67 (2014) . ISSN : 0976459
- मंडावी वेदवती संसदीय कार्यप्रणाली का विकास, ए.जर्नल ऑफ एशिया फॉर डेमोक्रेसी एण्ड डवलपमेंट, 33 से 39 (2012). ISSN: 09873-3833
- मंडावी वेदवती छ.ग. में नक्सली समस्या और आदिवासी, मल्टी डिसि. अंतर्राष्ट्रीय, 55 से 59 (2012) . ISSN : 2231-0045
- मंडावी वेदवती महिलाओं के राजनीतिक अधिकार, शोध प्रकल्प अंतर्राष्ट्रीय मानक मान्यता प्राप्त 28 से 31 (2012). ISSN: 097-6459
- मंडावी वेदवती नक्सलवाद से प्रभावित परिवार एवं मानव अधिकार, ए.जर्नल ऑफ एशिया फॉर डेमोक्रेसी एण्ड डवलपमेंट, आई.एस.एस.एन 112 से 118 (2012). ISSN: 09873–3833
- मंडावी वेदवती संसदीय कार्यप्रणाली 'विषेष्कांक' उभरती चुनौतियां तथा विकल्प संपादकीय एवं आयोजक, ए.जर्नल ऑफ एशिया फॉर डेमोक्रेसी एण्ड डवलपमेंट, आई.एस.एस.एन 12 (1), 07 से 160 (2012). ISSN: 09873–3833
- मंडावी वेदवती सूचना अधिकार और जवाब देही, छत्तीसगढ़ी विवेक, 28 से 32 (2013) . ISSN: 0972–9903
- मंडावी वेदवती उरांव जनजाति का प्रमुख, ए.जर्नल ऑफ एशिया फॉर डेमोक्रेसी एण्ड डवलपमेंट Vol. 12 (2013). 7 से 160 142 से 143 ISSN: 0973–3873
- मंडावी वेदवती ग्रामीण महिला नेतृत्व और चुनौतियां, शोध प्रकल्प अंतर्राष्ट्रीय मानक मान्यता प्राप्त, 45–50 (2013). ISSN: 097–6459,
- मंडावी वेदवती गोण्ड समाज की महिलाओं का अतीत एवं वर्तमान छत्तीसगढ़ के विशेष संदर्भ में, छत्तीसगढ़ी विवेक, 18 से 22 (2013) . ISSN: 0972–9903,
- मंडावी वेदवती संचार क्रांति–इंटरनेट, मल्टी डिसि. अंतर्राष्ट्रीय, 25 से 31 (2014) . ISSN: 2231-0045

Evaluative Report of Psychology Department

Psychology as a subject focuses primarily on studies of the Mind and Behavior and in its unique way bridges the gap between science and arts. The Department of Psychology is dedicated towards motivating students to explore the world of the mind and endeavours to inculcate a culture of psychological perspective amongst the youth. In consonance with the demands of present times a “Guidance and Counseling Cell” has been established in association with the department of Sociology to help students deal with such issues that lead them to anxiety, depression, stress or in extreme cases suicidal tendencies. The department maintains a “Wall Bulletin” in which students are motivated to actively contribute with topics related to psychology.

1. Name of the Department & its year of establishment : **Psychology ,2009**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	Undergraduate (B.A.)	Course
PG Courses	–	
Research degree Course	–	

3. Interdisciplinary courses and departments involved - Nil

4. Annual/ semester/choice based credit system

Under graduate course	–	Annual System
Post graduate course	–	Semester System

5. Participation of the department in the courses offered by other departments- Nil
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	NIL	Nil
Asst. Professors	02	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D . Students guided for the last 4 years
Dr. Rachita Shrivastaa	Ph.D.	Asstt. Professor	General Psychology	12 Years	-
Dr. Shahin Ghani	Ph.D.	Asstt. Professor	General Psychology	2 Years	-

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	
	Postgraduate	
2014-15	Undergraduate	
	Postgraduate	
2013-14	Undergraduate	--NIL--
	Postgraduate	
2012-13	Undergraduate	
	Postgraduate	
2011-12	Undergraduate	
	Postgraduate	

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	18:1
	Postgraduate	N.A.
2014-15	Undergraduate	19:1
	Postgraduate	N.A.
2013-14	Undergraduate	28:1
	Postgraduate	N.A.
2012-13	Undergraduate	09:1
	Postgraduate	N.A.
2011-12	Undergraduate	Course not introduced
	Postgraduate	

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	--NIL--	
Lab Attendant		

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Minor Research Project	Dr. Rachita Shrivastava	National (UGC)	2,30,000/-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received- Nil -

13. Research facility / centre with Not Applicable (UG Deptt.)
- state recognition
 - national recognition
 - international recognition

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	03
International	01

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	–	–	–	–
2	Books without ISBN No.	-	–	–	–
3	Edited books	–	–	–	–
4	Chapters in edited books	978-93-82-897-19-3	Blog Jan Abhivyakti ka Dwarpal Vihin Madhyam	Dr. Rachita Shrivastava	Sahitya Sanchar New Delhi
		978-93-83334-84-1	Role of RTI or Democratization of Communication	Dr. Rachita Shrivastava	A.K. Publication, Delhi
		978-81-89131-88-3	Spirituality & Well being in Youth	Dr. Shahin Ghani & Dr. Bhupinder Singh	Research India Press, New Delhi
5	Monographs				

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

International Database	Number of papers listed
Web of Science	–
Scopus	–
Humanities International Complete	–
Dare Database- International Social Sciences Directory	–
EBSCO host	–
Others	–

* Citation Index – range / average

* SNIP

*SJR

*Impact factor–range / average **01 International Paper with Impact factor 6.27**

*h-index

15.Details of patents and income generated --NIL--

16.Areas of consultancy and income generated

Consultancy Service	Income generated
--NIL--	

17.Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation√/Refresher√ Course	02
Seminar	01
Workshop	02
Others (Conference)	01

18.Student projects Not Applicable (UG Dept Not in Syllabus)

a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Post graduate programme	--
Under graduate programme	--

b. Percentage of students doing projects in collaboration with industries/institutes --NIL--

19.Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students – Nil

20.Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any. – Nil

21.Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A		20	19		

22. Diversity of Students

Name of the Course	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
(refer question no. 2)				
B.A	99.97	99.99	.01	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	
Defense Services	
NET	---NIL--
SLET	
GATE	

24. Student progression Not Applicable (UG dept.)

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	-
• Other than campus recruitment Self Employed	-
• Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	NIL
from other universities within the State	NIL
from other universities from other States	100%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - 01

27. Present details about infrastructural facilities

a) Library Not Applicable (UG dept.)

No. of text books	-
No. of reference books	-
No. of journals/magazines/proceedings	-
No. of e-books	-
Xerox copies of out of print/rare books	-
No. of CDs/DVDs	-
Lab. Manuals	-

b) Internet facilities for staff and students Yes.....

c) Total number of class rooms01

d) Class rooms with ICT facility NIL

e) Students' laboratories01.....

f) Research laboratories -Nil-.....

28. Number of students of the department getting financial assistance from College.

Students get financial aid as per the norms of the government.

29. Was any need assessment exercise undertaken before the development of new program(s)? If yes, give the methodology. - **No**

30. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Feedback is taken in departmental meetings & efforts are taken to improve the evaluation procedures.

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Feedback is taken and in accordance remedial efforts at making improvement are taken.
- c. alumni and employers on the programmes and what is the response of the department to the same?
Feedback has been taken from few alumni who are pursuing various PG courses from the University or other depts.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
--Not Available --		

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Special lecture	Dr. D. Mukherjee (Associate Professor and Head, Dept. of Psychology, Saint Thomas College, Bhilai) Dr. Biswas (Consulting Psychiatrist, Bhilai)
2014-15	Special lectures	Dr. D. Mukherjee (Associate Professor and Head, Dept. of Psychology, Saint Thomas College, Bhilai) Dr. Usha Mahobe (Assistant Professor and Head, Dept. of Psychology, Govt.Kamla College, Rajnandgaon)
2013-14	-	-
2012-13	-	-
2011-12	-	-

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1 Lecture Method..... 2 Practical's conducted..... 3 Seminars, Group discussions as per need.....

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The department regularly conducts faculty meetings and monitors program objectives on a monthly basis besides assessing students through various means of internal assessments.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
2015-16	21	Students prepared and delivered lectures on personality development at Govt. schools
2014-15	22	Study tour was taken and Students learnt about the necessity of energy conservation and wildlife conservation.
2013-14		Funds not allocated
2012-13		Details Not Available

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Interdisciplinary lectures delivered Two Guest lectures organized
2014-15	Two Guest Lectures organized Guest lecture delivered by faculty members at other Colleges
2013-14	-
2012-13	Not Available
2011-12	“

37. State whether the programme/department is accredited/ graded by other agencies. Give details -. Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Devoted faculty
- well enriched Lab
- Emphasis on individuality of students & sensitive dealing
- Diversity of faculty
- Provide equality of Opportunities to each student be it regular or private.

Weaknesses of the department

- Quantitative strength of students;
- Qualitative strength of students;
- Awareness levels regarding Psychology;
- lack of interest in gaining 'out of box' Knowledge ;
- Motivational levels of students

Opportunities

- Enhancing cognitive skills
- facilitating creativity
- enhancement of Motivational levels
- Efforts at developing holistic personalities
- contributing towards developing groups of students who are psychologically sensitive

Challenges

- Develop inquisitive and creative minds
- Quantitative and Qualitative strength of students
- Awareness levels regarding the subject
- lack of interest in gaining knowledge beyond books
- Motivational levels of students

39. Future plans of the department.

1. Making feasible attempts towards establishing PG Dept.
2. Improving Quantitative strength of the dept.
3. Improving Quantitative strength of the dept.
4. Ensuring all round development of students

Papers in National and International Journals

Ghani, S. B. Impact of economic status on Quality of life in caregivers of patients Singh with primary osteoarthritis of the knee. *Journal of Indian Health Psychology* 7, 23-31 (2013). ISSN: 0973-5755

Shrivastava, R. Awareness About Dyslexia Among Teachers And With Reference To Hindi Feature Film Tare Zameen Par. *Edusearch* 4, 99-101 (2013). ISSN : 0976-1160

Shrivastava, R. A Comparative Study Of Print And Online Newspaper : A Quantitative Approach, *Shodh Sampreshan* 714-17 (2014). ISSN : 097-6459

Evaluative Report of the Department of History

The Department of History besides indulging in regular teaching, works with a resolution to acquaint the coming generation with rich cultural heritage, traditions and history of not only India but also of Chhattisgarh. Besides this, the department rising up to the grave lacuna of unemployment in the Indian economy, focuses on creating employment opportunities. Hence to this effect an allied paper on 'Tourism' has been introduced in P.G. course. Further more, with the mission to promote societal equality, the department promotes research on tribals and other marginalised castes and community of Chhattisgarh socio-economic condition of women etc.

1. Name of the Department & its year of establishment History-1958
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A.
PG Courses	M.A.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved :- NIL

Course	Departments involved
-----	-----

4. Annual/ semester/choice based credit system

Under graduate course (B.A.) – Annual System

Post graduate course (M.A.) – Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
Basic computer training to P.G. students	Department of computer science

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professor	01	Nil
Assistant Professor	02	03

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of experience	No. of Ph.D. students guided for the last 4 years
Dr. Anil Kumar Pandey	M.A.,Ph.D.	Assistant Professor	Modern Indian History, Tribal & Peasant History , Regional History	23	7
Dr. Jyoti Dharkar	M.A.,Ph.D.	Assistant Professor	Modern Indian History	27	NIL
Dr. Kalpana Agrawal	M.A.,Ph.D.	Assistant Professor	Ancient Indian History	15	NIL

8. Percentage of classes taken by temporary faculty– programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	Nil
	Postgraduate	Nil
2014-15	Undergraduate	Nil
	Postgraduate	Nil
2013-14	Undergraduate	30%
	Postgraduate	30%
2012-13	Undergraduate	30%
	Postgraduate	30%
2011-12	Undergraduate	Nil
	Postgraduate	Nil

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	40/1
	Postgraduate	08/1
2014-15	Undergraduate	50/1
	Postgraduate	06/1
2013-14	Undergraduate	56/1
	Postgraduate	10/1
2012-13	Undergraduate	48/1
	Postgraduate	8/1
2011-12	Undergraduate	35/1
	Postgraduate	6/1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled- Nil
11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. - Nil
12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received -- Nil
13. Research facility / centre with State recognition :- Yes, Pt. Ravishankar Shukla University recognized research centre.
 National recognition-.....
 International recognition-.....

14. Publications:

*

No Number of papers published in peer reviewed journals (national /international)**. of papers published in peer reviewed journals**

National	-
International	08

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	ISBN 978-81-7831-257-6	Trial and Acquittal of Raja Shitab Rai	Anil Kumar Pandey	Manak Publication, (International Publisher) N.Delhi
	Books with ISBN No.	ISBN 81-7499-067-4	Glimpses of Modern Indian History	Anil Kumar Pandey	Vishwa Bharti Prakashan,(National Publisher)Nagpur.
2	Books without ISBN No.	-	-	-	-
3	Edited books		Madhya Prant Me Swadhinta Sangram (1842-1947 A.D.) (Ed.)	Anil Kumar Pandey	Gondi Public Trust, Mandla.
4	Edited Journal		Proceedings of the Chhattisgarh Itihas Parishad, First Session, Raipur, 2016,	Anil Kumar Pandey.	Vaibhav Publications Raipur
5	Chapters in edited books	ISBN 978-81-922660-4-6	Sirpur- An important Trading Centre of South Kosal,	Anil Kumar Pandey	Dr.Ram Pande(ed.Book) Trade and Trade Centres in Ancient and Medieval India, Shodhak ,Jaipur
6	Monographs	-	-	-	-
7.	Translation of Book		Samajik Adhayan (Translation) class 10 th ,	Anil Kumar Pandey	Chhattisgarh Madhamik Siksha mandal, Raipur.

* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others (Research Papers Published)	<ul style="list-style-type: none"> - Directory of Open Access Journals, Sweden - Ulrich's Web- global series directory, USA - DRJI- Directory of Research Journals, Indexing India. - BASE- Bielefeld Academic search Engine. - Advanced Science Index(ASI), Germany - Cite Factor- Academic Scientific Journal- Canada/USA - Slide Share- News letters- San Francisco.

- * Citation Index – range / average-
- * SNIP-
- * SJR-
- * Impact factor – average ...Scientific Journal Impact factor 3.552 & 4.466
- * h-index-

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated – Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	03
Workshop	03
Others(NSS Officer Training Programme)	01

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Post graduate programme	100%
Under graduate programme	Nil

- b. Percentage of students doing projects in collaboration with industries/ institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Post graduate programme	Nil
Under graduate programme	Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students

No.	Award/ recognitions	Faculty/ Doctoral/Post doctoral fellows/ Students	Year
1	Research Scholar Smt.Anusueya Jogi	UGC Teacher Fellowship	2015
2	Research scholar Nivedita Verma	ICHR Study Grant	2015

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	Date	National/ Inter- national Level	Topic/Subject	Funding Agency	Outstanding participants
National Seminar	27-28 February 2015	National	Peasants, Tribals and Working Class Movement 1858- 2010.	ICHR, New Delhi	115
Workshop	23 January to 2 February 2015	College	Workshop on Plaster Cast Replica of Archaeological Figurines	Culture and Archaeology Dept. Govt. Of Chhattisgarh	About 56
National Seminar	12-13 January 2012	National	Bishvi Satabadi Ka Chhattisgarh	Autonomous cell, Govt.V.Y.T.P.G.College, Durg.	

21. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.		44	20	63.63	90
M.A.	07	04	03	100	100

22. Diversity of Students

Name of the Course	% of students	% of students	% of students	% of Students
	from the college	from the state	from other States	from other Countries
B.A.	99.97	100	Nil	Nil
M.A.	20	100	Nil	Nil
Ph.D.	10	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	One student appeared in interview of C.G. State Services 2016
Defence Services	-
NET	01
SLET	-
GATE	-

24. Student progression

Student progression	Percentage against enrolled
UG to PG	20%
PG to M.Phil.	-
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	-
Employed	-
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment Self Employed • Entrepreneurs 	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	33%
from other universities within the State	-
from other universities from other States	66%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period :- NIL

27. Present details about infrastructural facilities

a) Library

No. of text books	2991
No. of reference books	2728
No. of journals/magazines/proceedings	03
No. of e-books	10
Xerox copies of out of print/rare books	-
No. of CDs/DVDs	-
Lab. Manuals	Nil

- b) Internet facilities for staff and students :- Nil
- c) Total number of class room :- 02
- d) Class rooms with ICT facility :- Nil
- e) Students' laboratories :- Nil
- f) Research laboratories :- Nil

28. Number of students of the department getting financial assistance from College. Nil-

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. Nil

30. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes feedback is taken and profitable steps are taken for improving teaching, learning and evaluation methodology.

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

The department assists in the centralized feedback of the students on staff, curriculum as well as teaching-learning-evaluation conducted by IQAC. This facilitates the adoption of suitable measures for all round development of students.

- c. alumni and employers on the programmes and what is the response of the department to the same?

Yes, the department appreciates the suggestions of alumni and employers and makes profitable use of their experience in making the programmes students centric.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Rajeshwari	Teacher Central School Dantewada
2	Manoj Dhanedra	SDM office Balod
3	Seeta Sharma	Govt. School Selud
4	Dileshwar Sahu	Operator (PVT.)
5	Gajendra Sahu	Guest Lecturer
6	Harinarayan Sahu	Computer Shop Self Employment
7	Ashish Kumeti	Guest Lecturer

32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	1. An interdisciplinary lecture on 'Sustainable development in Indian Economy.'	Dr. R.N. Singh, Principal Govt.Digviay college, Rajnandgaon
	2.	
	3. A Lecture on "Chhattisgarh Ke Phaninagvansi Rulers."	Dr. K.K. Agrawal, Professor of History, Government college, Bhilai.
	4. Exhibition of old coins, ornaments, documents and photographs of monuments.	Arun Gupta of Sahaj Prayaas, Victor,Ravindraji etc.
	5. Training programme for students of PG on use of waste papers and materials	Smt. Nanda Dange

2014-15	<ol style="list-style-type: none"> 1. A Lecture on, "State formation in Ancient India". 2. National Seminar on, "Peasants, Tribals and Working class movement (1850-2010)" 3. Ten Days workshop on plaster cast archaeological figurine 	<p>Dr. Nagendra Sharma, Associate Professor of History, University of Delhi.</p> <p>Dr. P.K. Shukla, Ex-Member Secretay, ICHR, New, Delhi.</p> <p>Experts from Culture Dept., Govt. Of Chhattisgarh.</p>
2013-14	-	-
2012-13	A Lecture on, "Bismarck"	Dr. Shailendra Singh Govt. Digvijay College, Rajnandgaon.
2011-12	-	-

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	<ol style="list-style-type: none"> 1 Chalk and Talk method 2 Interaction with students
PG Programme	<ol style="list-style-type: none"> 1 Chalk and Talk method 2 Interactive method 3 Project-based learning. 4. Seminars and computer based learning 5.Home Assignment

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Learning outcome are monitored through oral test in class, unit tests , seminars and home assignments.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
1.	43	10-01-2015- Educational Tour – Sirpur and Arang
2.	36	29-12-2012, Educational Tour- Sirpur, Barnawapara & Turturia
3.	39	16-12-2011, Educational Tour -Ratanpur.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	1. Interdisciplinary lecture on Sustainable development in Indian Economy.’ 2. Lecture on Chhattisgarh Ke Phaninagvansi rulers.
2014-15	1. A Lecture on “State formation in Ancient India” 2. National Seminar on “Peasants, Tribals and Working class movement (1850-2010)”
2013-14	-
2012-13	A Lecture on ,”Bismarck”
2011-12	-

37. State whether the programme/department is accredited/ graded by other agencies. Give details. - Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- All members of faculty are well qualified and experienced.
- Autonomy status provides space for innovation and independent design of curriculum. The syllabus is revised periodically to keep abreast with developments.
- In PG classes, teacher- student ration is favourable and teachers have an opportunity to give personal attention to every student. Thus the result of PG students is always 100% and more than 70% students pass in first division.

Weaknesses of the department

- Little research activity.
- Poor student placement

Opportunities

- The department has opportunities for establishing linkage with other institutions.
- To encourage teachers and research scholars to undertake research in a planned manner.
- To encourage students to compete in NET / SET and other competitive examination.
- Faculty members have opportunity to pay attention on research activities and paper publication in reputed journals.
- Major Research projects by faculty members on regional issues especially on tribals, women and children of Chhattisgarh region.

Challenges

- To attract student to the course.
- Since many of our students come from remote areas and of rural background, their expression skill even in Hindi is very poor.
- To schedule additional academic activities within annual and semester system.
- To create job opportunities for the students.

39. Future plans of the department.

1. A Museum cum library of department having photocopy of archival and rare documents and manuscripts; photographs, and replica of monuments and archaeological figurines of regional importance.
2. To start a course in P.G. Diploma in Tourism and Hotel management.
3. Successful functioning of the special coaching for state services examination will be implemented by the department.

Papers in National and International Journals

History

धारकर जे. ब्रिटिश शासन के वन अधिनियम और छत्तीसगढ़ के जनजाति समाज के विद्राह
Mind & society 1(2), 96-99 (2012) ISSN :2277-6907

धारकर जे. जनजातीय संस्कृति में गोदना बस्तर के विशेष संदर्भ में *Res. Lab to land* 5
(20) 762 (2013) ISSN :0975-28210

Pandey A.K. Metal craft of tribal of Chhattisgarh, *Research Innovator* 1 (5)
35 (2014), ISSN :2348-7674

Pandey A.K Rajmohini Devi Movement in Sarguja District of
Chhattisgarh scholars world 2 (4) 116 (2014) ISSN :2319-5789

Evaluative Report of the Department of Commerce & Management

The department of Commerce and Management is one of the most vibrant department of the institution. The students here are actively involved in curricular and extracurricular activities round the year. Initiative is taken to promote inter-disciplinary learning among the students. Besides giving the students an insight into subject, efforts are taken for developing skilled man power. The department also aspires to promote entrepreneurial qualities and to instill sound value system in the students which is crucial for the progress of any economy.

1. Name of the Department & its year of establishment : Commerce 1982
2. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Com.
PG Courses	M.Com.
Research degree Course	Ph.D.

3. Interdisciplinary courses and departments involved

Course	Departments involved
B.Com. with Computer Application	Department of Computer Science

4. Annual/ semester/choice based credit system

Under graduate course	–	Annual System
Post graduate course	–	Semester System
5. Participation of the department in the courses offered by other departments :
The department does not participate in the courses offered by other departments.
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	01	01
Asst. Professors	04	03

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
DR.O.P. Gupta	M.Com., LLB., M.Phil., Ph.D.	Professor	Commerce	32	05
DR.S.N.Jha	M.Com.,Ph.D.	Professor	Commerce	32	10 as Guide 08 as Co-Guide
DR.H.P. Singh Saluja	M.Com.,Ph.D.	Professor	Management	29	05
DR.S.R. Thakur	M.Com., LLB., M.Phil., Ph.D.	Asstt. Professor	Management	35	-

8. Percentage of classes taken by temporary faculty–programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	20%
	Postgraduate	20%
2014-15	Undergraduate	20%
	Postgraduate	20%
2013-14	Undergraduate	NIL
	Postgraduate	NIL
2012-13	Undergraduate	NIL
	Postgraduate	NIL
2011-12	Undergraduate	NIL
	Postgraduate	NIL

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	1:243
	Postgraduate	1:45
2014-15	Undergraduate	1:169
	Postgraduate	1:32
2013-14	Undergraduate	1:146
	Postgraduate	1:31
2012-13	Undergraduate	1:148
	Postgraduate	1:23
2011-12	Undergraduate	1:111
	Postgraduate	1:13

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled : N.A.

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Project	Name of Investigator	funding Agency (National/ International)	Grants received
Minor	Dr.O.P.Gupta	UGC	145000-00
Minor	Dr. S.R. Thakur	UGC	230000-00

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received N.A.

13. Research facility / centre with :

- state recognition Yes
- national recognition No
- international recognition No

14. Publications:

- * Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	23
International	17

- * Books with ISBN numbers with details of publishers – Nil-

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	-	-	-	-
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

- * number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Nil

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

- * Citation Index – range / average 04
 * SNIP Nil
 * SJR Nil
 * Impact factor – range / average 03-04
 * h-index Nil

15.Details of patents and income generated : Nil

16.Areas of consultancy and income generated :

Honorary Consultancy Services in checking Statement of Income, Filling of form 16 & I.T. Returns

Consultancy Service	Income generated
STATEMENT OF INCOME TAX	Free service

17.Faculty recharging strategies

- 1- Motivating the staff members to apply for minor and major research project.
- 2- Promoting the habit of writing research articles, publication in reputed journals.
- 3- Motivating the staff members to attend seminars, workshop and conferences.
- 4- During the years 2011-16, faculty members have attended seminars, presented papers, and undertaken Minor Research Projects

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	04
Workshop	04
Others Training Camp	02

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Post graduate programme	100% in-house projects is a compulsory part of syllabus
Under graduate programme	NIL

- b. Percentage of students doing projects in collaboration with industries/ institutes : Nil

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	-
Undergraduate programme	-

19. Awards /recognitions received at the national and international level
By Faculty / Doctoral/ post doctoral fellows/ Students :

No.	Award/ recognitions	Faculty/ doctoral Students	Doctoral/Post fellows/	Year
1	Securing III Position in All India Essay Writing Competition 2015(Zonal Level)	Ku. Sonali Meshram		2015

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National/ Inter-national Level	Topic/Subject	Funding Agency	Outstanding participants
National Seminar	17-18 Dec. 2011	National	Management of Resources, Utilization & Sustainable Development	UGC	Dr. S.S.Mishra Directors & Prof. Emeritus, Aurangabad, Pro-Vice Chancellor, Wardha, Prof. & Head N. K. Baghmar, Raipur Prof. & Head J.L..Bhardwaj, Raipur

21. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Com	917	239	144		
M.Com	145	41	41		

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.Com.	--	100%	NIL	NIL
M.Com.	70%	100%	NIL	NIL

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Competitive Examinations	No. of students selected
Civil Services	-
Defense Services	-
NET	03
SLET	-
GATE	-

24. Student progression

Student progression	Percentage against enrolled
UG to PG	80%
PG to M.Phil	--
PG to Ph.D.	2%
Ph.D. to Post-Doctoral	NIL
Employed:	-
• Campus selection	
• Other than campus recruitment	
• Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	50%
from other universities within the State	-
from other universities from other States	50%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : Nil

27. Present details about infrastructural facilities

a. Library : Yes

No. of Text Books	
Central Library	3150
Departmental Library	912
no. of Reference Books	
Central Library	338
Departmental Library	63
No. of Journals/Magazines/Proceedings	9
No. of e-Books/ E- journals	02
Xerox copies of out of print/rare books	Nil
No. of CDs/DVDs	-
Lab. Manuals	Nil

b. Internet facilities for staff and students : Yes

- Computer and internet access is given to staff and students .
- Office E-mail ID is provided to all teaching staff and administrative staff. -

d. Class rooms with ICT facility - Nil

e. Students' laboratories 01 Commerce
Laboratory
01 Computer
laboratory

f. Research laboratories /Section : No

28. Number of students of the department getting financial assistance from College.

Yes. Scholarships are given as per rules & regulations of Govt. of Chhattishgarh.

Scholarship (SC/ST/OBC category) details yearwise

YEAR	CLASS	MALE	FEMALE	TOTAL
2011-12	B.com.-I	26	18	44
	B.Com.II/III	24	06	30
	MCom..Previous	03	02	05
	M.Com.Final	02	03	05
2012-13	B.Com.-I	32	17	49
	B.Com.II/III	23	10	33
	MCom..Previous	NIL	NIL	NIL
	M.Com.Final	05	03	08
2013-14	B.Com.-I	38	22	60
	B.Com.II/III	35	22	57
	MCOM.PREVIOUS	15	05	20
	M.COM.FINAL	05	04	09
2014-15	B.COM.-I	100	40	140
	B.COM.II/III	74	46	120
	MCOM.PREVIOUS	17	08	25
	M.COM.FINAL	14	08	22
2015-16	B.COM.-I	80	89	169
	B.COM.II/III	83	45	128
	MCOM.PREVIOUS	20	05	25
	M.COM.FINAL	13	06	19

Scholarship (for BPL category) details yearwise

YEAR	CLASS	MALE	FEMALE	TOTAL
2011-12	B.COM.I/II/III	07	03	10
	M.COM.PREV./FINAL	NIL	NIL	NIL
2012-13	B.COM.I/II/III	31	19	50
	M.COM.PREV./FINAL	01	11	12
2013-14	B.COM.I/II/III	36	24	60
	M.COM.PREV./FINAL	09	06	15
2014-15	B.COM.I/II/III	43	26	69
	M.COM.PREV./FINAL	06	02	08
2015-16	B.COM.I/II/III	62	58	110
	M.COM.PREV./FINAL	11	07	18

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology
None

30. Does the department obtain feedback from

A- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The feedback is collected from faculty members and the key points are discussed in the Department meetings and suggestions are implemented.

B- Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

The feedback collected from the students by IQAC on curriculum and teaching staff and suggestions are incorporated wherever feasible.

C-Alumni and employers on the programmes and what is the response of the department to the same?

The feedback from alumni is gathered by the IQAC as well as in informal meetings with the students. The suggestions are discussed in the Department meetings and adopted wherever feasible.

31. List the distinguished alumni of the department (maximum 10)

List of distinguished alumni of the department

No.	Name of alumni	Qualification	Position held
1	Anil Ballewar	M.Com.	Businessmen
2	Dr..Sumeet Agrawal	M.Com.Ph.d.	Asst.Prof.in Commerce
3	Dr..(Smt.) Manjulata Sao	M.Com.Ph.d.	Asst.Prof.in Commerce
4	Dr..(Smt.)Shashi Kashyap	M.Com.Ph.d.	Asst.Prof.in Commerce
5	Dr.Subodh Diwedi	M.Com.Ph.d.	Asst.Prof.in Commerce
6	Shri Rajesh Gupta	M.Com.C.A	Chartered Accountant
7	Anand Dixit	M.Com.C.A	Chartered Accountant
8	Ashok Sharma	M.Com	Businessmen
9	Vijay Bhatia	M.Com	Industrilist
10	Deepak Dubey	M.Com.	Secretary C.G.Congress Party

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Workshop on Personality Development	Dr.R.K.Sharma
	Lecture on Economic Development of C.G.	Dr.Vijay Agrawal
2014-15	Lecture on Budget Processing	Dr. Ashok Parakh
	Lecture on Prepration of Examination	Dr. Ashanand Makhija
2013-14	Lecture on Research Methodology	Dr.K.S.Rao
2012-13	Lecture on what After Commerce Graduation. Carrier in Commerce	Dr. H.S.Bhatia
	Lecture on How to write a Research Paper	Dr. K.L.Rathi Dr. R.K.Tiwari
2011-12	Lecture on Implementation of New Industrial Policy	Dr. Ashok Parakh

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	<ul style="list-style-type: none"> • PPT • Lecture method • Group discussions • Outdoor interactive sessions • Student seminars • Assignments • Field visit
PG Programme	<ul style="list-style-type: none"> • PPT • Lecture method • Group discussion • Outdoor interactive sessions • Student seminars • Assignments • Field visit • Study Tour • Value Education • Visit to Self Help Groups • Community visit

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Programmes objectives are met by:

- Effective teaching by making use of multimedia resources
- Organizing periodic seminars, workshops and conferences on contemporary topical issues
- Individual attention to assignments, seminars and projects.

Learning outcomes are monitored by:

- Periodical evaluation
- Departmental review meetings
- Interactions with low performers and remedial coaching

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Visit to B.S.P.Plant	70	Industrial Visits are arranged to give students to get an exposure to the industry, its functions and products.
Visit to B.E.C. Food Division Plant	157	Industrial Visits are arranged to give students to get an exposure to the industry, its functions and products.
Commerce Talent Search Exam.	346	Exam. Conduced for 12 th std. Commerce students

36. Give details of “beyond syllabus scholarly activities” of the department.

beyond syllabus scholarly activities
<ul style="list-style-type: none"> a. Paper presentation by faculty at state, national level. b. Faculty participation in various seminars and workshops. c. Involvement of the faculty in research activities.

37. State whether the programme/department is accredited/ graded by other agencies. Give details.

The department is not accredited/graded by any other agencies.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Highly qualified & experienced faculty
- Very Good Infrastructure
- Regular revision of curriculum
- Faculty involvement in other departmental activities and committees besides teaching commitments.
- Faculty sensitive towards differently abled students.

Weaknesses of the department

- Excessive number of students in class hampers creativity and innovation in teaching.
- No provision for job oriented and skill development course.
- Lack of National and International exposure.
- The department does not have each classroom with proper multimedia facilities which affects teaching.
- Lack of practical and industry exposure for students in the form of industry visits to prepare them for their career ahead.

Opportunities

- There is potential to introduce professional courses at graduation level
- Collaboration with industries to upgrade student's practical knowledge.
- Growing demand for management and accounting professionals.
- Scope for strengthening research centre.
- Designing add-on courses on skill oriented subjects like Taxation and Auditing, Marketing ,Banking ,etc.
- Collaboration with professional bodies like ICAI, ICSI, ICWAI

Challenges

- Course structure and pressure to finish the syllabi in semester of just 4 months leave little scope for in-depth analysis and extra-curricular activities.
- To bring the department at par with professional courses of corresponding disciplines offered by private institutions with better infrastructure and multimedia facilities.
- Providing job opportunities for students.
- Rural mindset of the students hinders their adaptation to entrepreneurship.
- Inclusion of interdisciplinary topics in the curriculum

39. Future plans of the department.

1. Proposal has been sent to government for new course on Diploma in Tally Programme.
2. To organise programmes on personality development.
3. Procurement of more computers in Commerce laboratory .
4. Providing e-learning facilities for students.
5. Strengthening collaborative research.
6. Incorporating more interdisciplinary components in the curriculum.

Papers in National and International Journals

Saluja H.P.S., Soni R.K. and Prasad B. छत्तीसगढ़ राज्य में कृषि एवं ग्रामीण विकास सहकारी बैंक की दशा एवं दिशा ,*Golden Research Thoughts* 2(1) (2012). ISSN : 2231-5063

Saluja H.P.S., Soni R.K., Prasad B. and Bhatia H.S. बस्तर संभाग में जिला सहकारी कृषि एवं ग्रामीण विकास बैंक के हितग्राहियों का अध्ययन *Golden Research Thoughts* 2(3) (2012). ISSN : 2231-5063

Saluja H.P.S and Soni R.K. जिला सहकारी कृषि और ग्रामीण विकास बैंक के कार्यों का मूल्यांकन रायपुर संभाग के संदर्भ में *Contemporary \Research in India* 2(3) (2012). ISSN : 2231-2137

Saluja H.P.S., Soni A.K. and Singh D. “A study on Chhattisgarh State co-operative agriculture and rural development Bank limited Survey based analysis”: *Golden Research Thoughts* 2(4) (2012). ISSN : 2231-5063

Soni A.K., , **Saluja H.P.S.** Rule of Co-operative bank in agricultural credit: A study based on Chhattisgarh, *Abhinav National Monthly Referred Journal of Research in Commerce and Management* 1(10)106-113 (2012). ISSN: 2277-1166

Soni A.K. , **Saluja H.P.S.** A Study on the development of co-operative movement of Chhattisgarh State, *Indian Streams Research Journal* 2(10) (2012). ISSN: 2230-7850

Soni A.K., **Saluja H.P.S.** A study of committees on the development of co-operative movement, *Golden Research Thoughts* 2(7)1-10 (2013) ISSN No. 2231-5063

- Soni A.K., **Saluja H.P.S.** and Kapre A. A case study on online paddy procurement system in Chhattisgarh, *Golden Research Thoughts* 2(7) (2013) ISSN No. 2231-5063
- Bhatia H.S., **Saluja H.P.S.** ,Soni R.K. and Sakvar S. जिला सहकारी कृषि और ग्रामीण विकास बैंक राजनांदगांव समस्या उपलब्धियां और संभावनाएं *Paripex Indian Journal of Research* 2(2) (2013). ISSN: 2250-1991
- Soni A.K. and **Saluja H.P.S.** Financial Ratio analysis of DCC Bank limited Rajnandgaon financial management, *International Journal of Accounting and Financial Management Research.* 3(1) 93-106(2013). ISSN : 2249-6882
- Soni A.K. and **Saluja H.P.S.** A study on development of co-operative movement in planned economy, *International Journal of Economics Commerce and Research* 3(1) 39-48(2013). ISSN :2250-0006
- Soni A.K. and **Saluja H.P.S.** Comprehensive study on common accounting system for PACS *International Journal of Accounting and Financial Management and Research* 3(1)107-132 (2013). ISSN : 2249-6882
- Soni A.K. and **Saluja H.P.S.** Audit practice and procedure in co-operatives of Chhattisgarh, *Golden Research Thoughts* 2(9)91-95 (2013). ISSN : 2231-5063
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- Saluja H.P.S.**, Soni R.K. , Sakvar S. and Bhatia H. S राष्ट्रिय सफाई कामगार वित्त एवं विकास निगम नई दिल्ली द्वारा संचालित योजनाओं का अध्ययन *Indian Journal of Applied Research* ,3(7)(2013). ISSN : 2249-555X.
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- Saluja H.P.S.**, Soni R. K. and Singh Y प्रधानमंत्री ग्राम सड़क योजना के द्वारा छत्तीसगढ़ के बस्तर जिले के विकास का विश्लेषणात्मक अध्ययन *Golden Research Thoughts* ,3(5) (2013). ISSN: 2231-5063

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- Mishra S.P. and **Jha S.N.** छत्तीसगढ़ राज्य में लघु वनोपजों का प्रबंध एक अध्ययन *छत्तीसगढ़ विवेक* 36,51 (2012). ISSN: 0972-9909
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- Mishra S.P. and **Jha S.N.** लघु वनोपज आदिवासियों के जीविकोपार्जन प्रबंध का एक महत्वपूर्ण साधन एक अध्ययन छत्तीसगढ़ राज्य के संदर्भ में ए शोध प्रकल्प 61(4) 68,(2012). ISSN: 2278-3911
- Mishra S.P. and **Jha S.N.** छत्तीसगढ़ राज्य में राष्ट्रीयकृत लघु वनोपज का व्यापार *शोध संप्रेषण* 5,37 (2013). ISSN : 097-6459
- Acharya A and **Gupta O.P.** Influence of peer pressure on brand switching among Indian College students, *International Journal of Current Research* 6(2)5164-5171 (2014). ISSN: 0975-833X
- Acharya A, and **Gupta O.P.** Examinee CSR practices among companies in different sectors in the U.S. & India. *Excel International Journal of Multi disciplinary Management Studies* 4(7),22-36 (2014). ISSN: 2249-8834

Evaluative Report of Sanskrit Department

The Sanskrit Department endeavours at creating awareness and proficiency of the subject .In the present times the prospect of the subject appears rather bleak. It is matter of great concern ,as Sanskrit is not only a language of India. It is rather synonymous with our tradition, culture and heritage. The department makes special efforts at sustaining the tradition and culture of India. This it does by not merely indulging in classroom teaching , but also by organizing various literary competitions in the subject. Though the department is not a recognized research centre ,the Central library of the college contains a good collection of books on Sanskrit literature and language. This proves to be very beneficial for the research scholars of other institutions.

1. Name of the Department & its year of establishment -- Sanskrit 1982
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.A.
PG Courses	-
Research degree Course	-

3. Interdisciplinary courses and departments involved Nil

Course	Departments involved
--	--

4. Annual/ semester/choice based credit system

Under graduate course – Annual System
Post graduate course – Semester System

5. Participation of the department in the courses offered by other departments Nil

Name of course	Departments involved
---	--

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	Nil	-
Asst. Professors	01 Vacant*	

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Smt.Abh Tiwari	M.A,Acharya, Ph..D	Guest Faculty	Sahitya	06	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	100%
	Postgraduate	Nil
2014-15	Undergraduate	100%
	Postgraduate	Nil
2013-14	Undergraduate	100%
	Postgraduate	Nil
2012-13	Undergraduate	100%
	Postgraduate	Nil
2011-12	Undergraduate	100%
	Postgraduate	NIL

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	22:1
	Postgraduate	-
2014-15	Undergraduate	19:1
	Postgraduate	-
2013-14	Undergraduate	26:1
	Postgraduate	-
2012-13	Undergraduate	23:1
	Postgraduate	-
2011-12	Undergraduate	18:1
	Postgraduate	-

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled Nil

Technical Staff	Sanctioned	Filled
Lab Technician	-	-
Lab Attendant	-	-

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Nil

13. Research facility / centre with

- state recognitionNil.....
- national recognitionNIL.....
- international recognitionNIL.....

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	NIL
International	NIL

* Books with ISBN numbers with details of publishers NIL

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	---	---	---	---
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - NIL-

International Database	Number of papers listed
Web of Science	--
Scopus	--
Humanities International Complete	--
Dare Database- International Social Sciences Directory	---
EBSCO host	---
Others	--

- * Citation Index – range / average.....--.....
- * SNIP.....-.....
- * SJR.....--.....
- * Impact factor – range / average--.....
- * h-index--.....

15. Details of patents and income generated--.....

16. Areas of consultancy and income generated –NIL-

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	--
Seminar	01
Workshop	----
Others	----

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme –NIL-
- b. Percentage of students doing projects in collaboration with industries/ institutes- NIL-

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students- NIL-

20. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any. NIL

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.A.					

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from the other state	% of students from the other country
B.A.		100%	NIL	NIL

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? NIL

Competitive Examinations	No. of students selected
Civil Services	--
Defense Services	--
NET	-
SLET	--
GATE	---

24. Student progression

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	NIL
• Other than campus recruitment	
• Entrepreneurs	NIL

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	100%
from other universities within the State	NIL
from other universities from other States	NIL

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – NIL-

27. Present details about infrastructural facilities

a) Library

No. of text books	-2308
No. of reference books	-891
No. of journals/magazines/proceedings	-02
No. of e-books	-
Xerox copies of out of print/rare books	--
No. of CDs/DVDs	-
Lab. Manuals	-NIL

- b) Internet facilities for staff and students -YES-
- c) Total number of class rooms with ICT facility-01-
- d) Students' laboratories -NIL-
- e) Research laboratories –NIL-
28. Number of students of the department getting financial assistance from College.
The students get financial assistance as per the government rules.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. –NIL-
30. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
-Feedback is taken and feasible changes are implemented in teaching learning methodology.
 - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
-Feedback from the students is taken by IQAC of the college and based on feedback analysis appropriate changes are made.
 - alumni and employers on the programmes and what is the response of the department to the same?
-Department makes profitable use of the suggestions given by the alumni.
31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Ku. Preeti Markandey	--
2	Ku. Dhaneshwari Vairagi	- House Wife
3	Shri Hari Narayan	--B.Ed.
4	Ku. Urvashi verma	-- House Wife
5	Ku. Payal Yadav	--M.A. in Political Science
6	Ku.Shobha Gayakwad	--
7	Ku.Triveni	--
8	Ku. Lokeshwari Verma	-- House Wife
9	Shri Lokeshwari	--
10	Shri Chavi lal	--Business

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	--	
2014-15	--	
2013-14	Special Lecture on ' <i>Sanskrit Me Vigyan</i> '	Prof.M.M. Humbardey
2012-13	--	
2011-12	--	

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Lecture Method 2. Group Discussion 3. Text Reading

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

By way of regular interaction with students by the faculty, group discussion and internal assessment the programme objectives are constantly met and learning outcome monitored.

35. Highlight the participation of students and faculty in extension activities.-Nil

36. Give details of "beyond syllabus scholarly activities" of the department.

Year	beyond syllabus scholarly activities
2015-16	--
2014-15	--
2013-14	Sanskrit Week Celebration ---- ' <i>Shloka Recitation Competition</i> ' for college students
2012-13	--
2011-12	--

37. State whether the programme/department is accredited/ graded by other agencies. Give details.-NIL-

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Good collection of books on Classics and Sanskrit literature .
- Sole department for the study of Sanskrit in the district.

Weaknesses of the department

- Absence of regular faculty.
- Unpopularity of the subject among students.
- Non-availability of PG. programme.

Opportunities

- In accordance with the Govt. policy to promote study of Sanskrit and other Classical languages, the department gives an opportunity to pursue the subject in higher education.
- Sanskrit being taught as second language at higher secondary level, the students get an opportunity to pursue the subject for higher studies.

Challenges

- To popularize the subject in the region.
- To improve language efficiency of students.

39. **Future plans of the department.**

- To initiate PG. programme.
- To promote Sanskrit language based co-curricular activity in the college.

Evaluative Report of the Department of Library and Information Science

The newly established department of Library and Information Science works on the basis of self financing scheme. It aims to provide a wide range of courses designed to refresh and update knowledge and skills of the students. It proposes to develop expert professionals fully equipped to meet the challenges of a library professional in this digital and e- information dominated era.

1. Name of the Department & its year of establishment -

LIBRARY AND INFORMATION SCIENCE

Year of establishment : 2012

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

B. Lib. I. Sc., M. Lib. I. Sc.

UG Courses	B. Lib. I. Sc
PG Courses	M. Lib. I. Sc
Research degree Course	--

3. Interdisciplinary courses and departments involved

Course	Departments involved
--	--

4. Annual/ semester/choice based credit system

Under graduate course (B.Lib) – Annual System
 Post graduate course (M Lib.) – Semester System

5. Participation of the department in the courses offered by other departments :
 Nil

Name of course	Departments involved
--	--
--	--
--	--

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professors	NIL	NIL
Asst. Professors	NIL	NIL

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Vinod Kumar Ahirwar	B.Sc. B.Lib. I. Sc.	Librarian & H. O. D.	School Library	18 as a college Librarian & 04 years teaching experience	--
Smt. Rajlaxmi Pandey	B. Sc., B.Lib., M. Lib., M. Phil in Lib. Sc.	Faculty Temporary	-	-	-
Manish	BA ,B Lib, M Lib	Faculty Temporary	-	-	-

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	80
	Postgraduate	80
2014-15	Undergraduate	80
	Postgraduate	80
2013-14	Undergraduate	80
	Postgraduate	80
2012-13	Undergraduate	75
	Postgraduate	--
2011-12	Undergraduate	--
	Postgraduate	--

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	14/1
	Postgraduate	5/1
2014-15	Undergraduate	12/1
	Postgraduate	5/1
2013-14	Undergraduate	10/1
	Postgraduate	4/1
2012-13	Undergraduate	10/1
	Postgraduate	--
2011-12	Undergraduate	--
	Postgraduate	--

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled : Nil

Technical Staff	Sanctioned	Filled
Lab Technician	--	--
Lab Attendant	--	--

(part time supporting staff is engaged)

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received –Nil-

13. Research facility / centre with

- state recognition Nil
- national recognition Nil
- international recognition Nil

14. Publications:

* Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	01
International	-

* Books with ISBN numbers with details of publishers

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	–	–	–	–
2	Books without ISBN No.	–	–	–	–
3	Edited books	–	–	–	–
4	Chapters in edited books	–	–	–	–
5	Monographs	–	–	–	–

* number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil

International Database	Number of papers listed
Web of Science	–
Scopus	–
Humanities International Complete	–
Dare Database- International Social Sciences Directory	–
EBSCO host	–
Others	–

* Citation Index – range / average: ----- Nil.....
 * SNIP ----- Nil.....*
 SJR ----- Nil.....
 *Impact factor – range / average ----- Nil.....
 * h-indexNil-----

15. Details of patents and income generatedNil

16. Areas of consultancy and income generated -Nil

Consultancy Service	Income generated
-	-
Free consultancy provided to near by student and college library	

17. Faculty recharging strategies: Through participation in short term training programmes/refresher courses/Orientation programmes/workshops

Programme	No. of Faculty benefited
Orientation/Refresher Course	01
Seminar	03
Workshop	03
Others	-

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Postgraduate programme	100 %
Undergraduate programme	1.

- b. Percentage of students doing projects in collaboration with industries/institutes Nil

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	-
Undergraduate programme	-

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students- Nil

No.	Award/ recognitions	Faculty/ fellows/ Students	Doctoral/Post doctoral	Year
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-

20. Seminars/Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Seminar/ Workshop	date	National / International Level	Topic/Subject	Funding Agency	Outstanding participants
-	-	-	-	-	-

21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Lib	117	14	26	35	65
M. Lib	29	6	9	40	60

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students form the college	% of students form the state	% of students form the other state	% of students form the other countries
B.Lib		100	0	0
M. Lib		100	0	0

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? Nil

Competitive Examinations	No. of students selected
Civil Services	0
Defense Services	0
NET	0
SLET	0
GATE	0

24. Student progression

Student progression	Percentage against enrolled
UG to PG	40%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	NA
• Other than campus recruitment	11%
• Entrepreneurs	

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	0
from other universities within the State	1
from other universities from other States	0
	2
	0
	1

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Nil

27. Present details about infrastructural facilities

a) Library

No. of text books	267
No. of reference books	45
No. of journals/magazines/proceedings	01
No. of e-books	Over 100
Xerox copies of out of print/rare books	20
No. of CDs/DVDs	–
Lab. Manuals	–

- b) Internet facilities for staff and students- Yes
 c) Total number of class rooms - Two
 d) Class rooms with ICT facility - One
 e) Students' laboratories - Nil
 f) Research laboratories - Nil

28. Number of students of the department getting financial assistance from College. –Nil-

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, need assessment survey was conducted among regular students, alumni, parents and other stakeholders of the society after analyzing the feedback, B.Lib. I.Sc. and M.Lib, I.Sc. courses were started.

30. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes the feedback helps in designing the programme according to the needs of the students.

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

The department assists in the centralized feedback of students on staff, curriculum as well as teaching-learning-evaluation conducted by IQAC. This facilitates the adoption of suitable measures for all round development of students.

- c. alumni and employers on the programmes and what is the response of the department to the same?

The department makes profitable use of the experiences of alumni and employs them for the benefit of student.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	Jyoti	Librarian
2	Deepti Suktel	Assitt. Librarian
3	Suryakant	Librarian
4	Neeta Mishra	Librarian
5	Sapna Bandhare	Librarian
6	Lal Chand	Librarian
7	Vidhya	Librarian
8	Neha	Librarian
9	Indrani Pisda	Librarian
10		

32. Give details of student enrichment programmers (special lectures/workshops/seminar) with external experts.

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Utility of Online Information Resources	Dr Rajesh Singh
2014-15	Information and Its Communication	Dr R G Prashar
2013-14	Introduction to Library Classification and Cataloguing	Dr M P Satija
2012-13	Chhattisgarh Library legislation	Dr. Suparn Sengupta
2011-12	--	--

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Traditional Class Room Teaching 2. Workshop and Seminar etc. 3. Library automation training 4. Use of ICT 5. Study Tour
PG Programme	1. Traditional Class Room Teaching 2. Use of ICT 3. Library automation training 4. Work shop, seminar 5. Study Tour

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
Through regular internal assessment, group discussion, seminar etc. monitoring of student learning is done.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Public Library service	87	Students guide the entrants to their desired reading section.
Chhattisgarh Library Council	262	Students assists in organising subject related workshops and seminars.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2015-16	Quiz and Brain Storming activities
2014-15	Quiz and Brain Storming activities
2013-14	Quiz and Brain Storming activities
2012-13	Quiz and Brain Storming activities
2011-12	--

37. State whether the programme/department is accredited/ graded by other agencies. Give details. : No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Good library and reference materials available for Library and Information Science teaching.
- Good infrastructure available.
- Well placed Alumni in different institutions.
- Collaboration with Pt. Ravishankar University, Raipur and Indira Gandhi agriculture University, Raipur.

Weaknesses of the department

- Lack of regular staff.
- Lack of Research activities.
- Disinterest among the students to read standard study material.

Opportunities

- The autonomous status provides opportunity to design the syllabus according to the needs of the students.
- ICT facility.
- Availability of a rich library in the camps provides an opportunity to the students to gain practical knowledge of the working of a library.
- Enormous job opportunities.
- To organise national and international seminar.

Challenges

- To establish a computer laboratory with Internet facility and update the syllabus as per the requirement of knowledge based Information Society.
- To promote research activity
- To get an increase in the number of regular teaching staff.

39. Future plans of the department.

1. Plans to introduce PG Diploma in Library Automation.
2. Organise workshops/seminars for the benefit of the Library professionals, research scholars and students.

Evaluative Report of the Department of Computer Science

In 21st century Information Technology is the central dogma of knowledge for any civilized society. The department of Computer Science is dedicated to fulfilling the basic need of modern times, that of making students proficient in the use of computers. The newly established, department is working hard to disseminate computer education to the students. For proper fruition of its efforts the department constantly revises the curriculum keeping abreast with the fast technological developments.

1. Name of the Department & its year of establishment-**Computer Science, 2004**
2. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG Courses	B.Sc. (Comp. Sc.), B.C.A., B.Com. (Computer Application)
PG Courses	PGDCA
Research degree Course	Nil

3. Interdisciplinary courses and departments involved

Course	Departments involved
-	-

4. Annual/ semester/choice based credit system

Under graduate course – Annual System
 Post graduate course – Semester System

5. Participation of the department in the courses offered by other departments

Name of course	Departments involved
B.Com. with Computer Application	- Commerce
B.Sc.	- Physics, Mathematics

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

Teaching Post	Sanctioned	Filled
Professor	Nil	Nil
Asst.Professor	03	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Kajal Kiran Gulhare	M.Sc., M.Phil (C.S.)	Asst.Prof.	Computer Science	1 Year 6 Month	Nil
Durgesh Kumar Kotangle	M.C.A., M.Phil (C.S.)	Asst.Prof	Computer Science	1 Year 6 Month	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information

Year	Programme	Percentage of classes taken by temporary faculty
2015-16	Undergraduate	50%
	Postgraduate	50%
2014-15	Undergraduate	50%
	Postgraduate	50%
2013-14	Undergraduate	100%
	Postgraduate	100%
2012-13	Undergraduate	100%
	Postgraduate	100%
2011-12	Undergraduate	100%
	Postgraduate	100%

9. Programme-wise Student Teacher Ratio

Year	Programme	Student-Teacher Ratio
2015-16	Undergraduate	50:1
	Postgraduate	32:1
2014-15	Undergraduate	40:1
	Postgraduate	40:1
2013-14	Undergraduate	38:1
	Postgraduate	40:1
2012-13	Undergraduate	45:1
	Postgraduate	39:1
2011-12	Undergraduate	42:1
	Postgraduate	40:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical Staff	Sanctioned	Filled
Lab Technician	--	--
Lab Attendant	--	--

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil

Project	Name of Investigator	funding Agency (National/ International)	Grants received
-	-	-	-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Project	Name of Investigator	funding Agency (National/ International)	Grants received
NIL	-	-	-

13. Research facility / centre with

state recognition	Nil
national recognition	Nil
international recognition	Nil

14. Publications:

- * Number of papers published in peer reviewed journals (national /international)

No. of papers published in peer reviewed journals	
National	-
International	02

* Books with ISBN numbers with details of publishers : Nil

No.	Specification	ISBN No	Title	Author	Publishers
1	Books with ISBN No.	-	-	-	-
2	Books without ISBN No.	-	-	-	-
3	Edited books	-	-	-	-
4	Chapters in edited books	-	-	-	-
5	Monographs	-	-	-	-

* number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil

International Database	Number of papers listed
Web of Science	-
Scopus	-
Humanities International Complete	-
Dare Database- International Social Sciences Directory	-
EBSCO host	-
Others	-

- * Citation Index – range / average
- * SNIP
- * SJR
- * Impact factor – range / average
- * h-index

15. Details of patents and income generated - Nil
 16. Areas of consultancy and income generated : Nil

17. Faculty recharging strategies

Programme	No. of Faculty benefited
Orientation/Refresher Course	-
Seminar	-
Workshop	-
Others	-

18. Student projects

- a. Percentage of students who have done in-house projects including inter-departmental/programme

Programmes	Percentage of students who have done in-house projects
Post graduate programme	100%
Under graduate programme	10%

- b. Percentage of students doing projects in collaboration with industries/institutes

Programmes	Percentage of students doing projects in collaboration with industries / institutes
Postgraduate programme	Nil
Undergraduate programme	Nil

19. Awards / recognitions received at the national and international level by Faculty / Doctoral/ post doctoral fellows/ Students : Nil
20. Seminars/Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any. : Nil
21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female Total
B.Sc. Computer Science	456	45	39	46	37
B.C.A.	82	23	18	15	15
B. Com Computer Application	80	19	26	22	49
P.G.D.C.A.	356	125	14	90	0

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.Sc	99.98	99.98	0.02	Nil
B.C.A	99.97	99.98	0.02	Nil
B.Com	99.96	99.98	0.02	Nil
P.G.D.C.A	40	100	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? : Nil

Competitive Examinations	No. of students selected
Civil Services	-
Defense Services	-
NET	-
SLET	-
GATE	-

24. Student progression

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	-
• Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	-
from other universities within the State	100%
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - Nil

27. Present details about infrastructural facilities

a. Library: Books issued to students through central library.

No. of text books	-
No. of reference books	-
No. of journals/magazines/proceedings	-
No. of e-books	-
Xerox copies of out of print/rare books	-
No. of CDs/DVDs	-
Lab. Manuals	-

- a. Internet facilities for staff and students: Yes
- b. Total number of class rooms: 02
- c. Class rooms with ICT facility :01
- d. Students' laboratories : 02
- e. Research laboratories: Nil

28. Number of students of the department getting financial assistance from College.

- Students get scholarship as per the norms of the Chhattisgarh government.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. : Nil

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes feedback is taken and discussed in the meetings of the department and changes are implemented accordingly.

- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes feedback is taken by IQAC of the college and guided by the feedback the department makes feasible changes.

- c. Alumni and employers on the programmes and what is the response of the department to the same?

Yes the department makes full use of the suggestions given by the alumni.

31. List the distinguished alumni of the department (maximum 10)

No.	Name of alumni	Position held
1	-	-

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts. List also attached Separately

Year	Topic : Special Lecture/Workshop/Seminar	Name of Expert
2015-16	Workshop on Ethical Hacking	Ms Amreet
2014-15	Workshop on Presonality Development and Software Skill Development	Ms.Michel

33. List the teaching methods adopted by the faculty for different programmes.

Programme	Teaching methods adopted by the Faculty
UG Programme	1. Conventional Blackboard and Lecture method. 2. Power Point Presentation. 3. Group Discussion 4. Project
PG Programme	1. Conventional Blackboard and Lecture method. 2. Power Point Presentation 3. Classroom seminar 4. Group Discussion 5. Project

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Through regular internal assessment, group discussion and student feedback learning outcomes are monitored.

35. Highlight the participation of students and faculty in extension activities.

Extension Activity	No. of participants	The ways students/faculty participated
Career Counseling Awareness programme	90	Students participated with curiosity and interest.

36. Give details of “beyond syllabus scholarly activities” of the department.

Year	beyond syllabus scholarly activities
2014-15	2 days workshop for School-Teachers and 1 week workshop for students on ‘Basic Computer Knowledge.’
2013-14	‘Basic computer knowledge’ workshop for M.A. Hindi students
2012-13	Workshop on PPT Presentation, CV, Email and online form submission for the benefit of the students.
2011-12	Workshop for preparation of PPT for M.Sc. Physics students

37. State whether the programme/department is accredited/ graded by other agencies. Give details. –Nil-

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths of the department

- Qualified faculty.
- Well equipped laboratory.
- Interdisciplinary teaching.
- Well designed and need based curriculum.
- LAN connectivity and Wi-Fi connectivity.

Weaknesses of the department

- Shortage of power supply.
- Lack of regular lab technicians .
- No Power backup in System.
- Insufficient regular faculty.
- Lack of departmental library.

Opportunities

- Scope for interdisciplinary studies.
- Scope for research activity for faculty and students.
- Good job opportunity.
- MoU with national and multinational companies.
- Tie-up with other higher education institutions.

Challenges

- To constantly upgrade our knowledge according to new technologies.
- Establishment of a rich departmental library.
- Promotion of interdisciplinary studies.
- Promotion of research activity.
- Inspiring students for beyond syllabus activity.

39. Future plans of the department.

1. Upgrade syllabus regularly.
2. To start M.Sc. in Computer Science.
3. Certificate program in Hardware and Software

POST ACCREDITATION INITIATIVES

The college was assessed and accredited by NAAC first in 2004. The second cycle of assessment and reaccreditation was done in November, 2011. For overall development of the students and to keep pace with present needs of the society and industries, the policy of the college has been framed, incorporating suggestions and recommendations given by NAAC peer team. The college has witnessed tremendous growth both in terms of infrastructural development and quality enhancement over the past five years.

All the stakeholders of the College have been involved directly or indirectly through logically planned and committed decisions to build a culture of excellence. The members of the *Janbhagidari* Committee, the teachers, the students, non-teaching staff, parents and alumni have all worked together toward quality sustenance and its enhancement. The institute imparts attributes of functional and social relevance, mental ability and physical dexterity, efficacy and reliability to the students. The institute addresses the issues of the socially and economically disadvantaged as stated in its vision and mission.

The initiatives undertaken in the aftermath of NAAC assessment and accreditation of the college is encapsulated in the following paragraphs-

Traversing New Pathways through Curricular Alterations:

The institute has passed through reformation and updation of curricula keeping attuned with the upcoming changes in technology, economy and society by and large. The major changes include:

- Introduction of Syllabus based on Credit Based Semester System (CBSS) designed and implemented during the session 2015-16 for Semester I and II of all the PG courses.
- Inclusion of new papers by the departments of Microbiology, Geology, Biotechnology, Geography, Political Science and History during the last five years, as mentioned in criterion I (1.1.3).
- Introduction of self financing and skill oriented programmes such as B. Lib. & I. Sc. and M. Lib & I. Sc. , apart from running programmes like BCA and PGDCA.
- Major curricular restructuring in self financing courses like M.Sc. Microbiology and Biotechnology.
- Revision and updation of lab courses as per the expertise and resources available.
- Proposal of new courses sent for approval to the Department of Higher Education, Government of Chhattisgarh, such as, Diploma in Food Science and Oil Technology, M.Sc. Computer Science, M.Sc. Statistics, Master of Social Work, Certificate course in Tally, Certificate Course in Communicative English.

Scaling New Heights in Pedagogical Practices:

Various innovative measures have been initiated and implemented to create a new learning environment in the campus heading towards a learner centric pedagogy, as reflected in the following practices:

- **Experiential learning through project work/ surveys and field work:**

Project work has been included in the curriculum of the PG students, for motivating students towards research, critical thinking and attaining in depth knowledge of their respective disciplines.

- **Academic Audit:**

Academic Audit of the teaching departments has been done regularly during the last five years through Performance Based Appraisal System.

- **Comprehensive and continuous assessment(CCA):**

Continuous monitoring of students performance is done through class tests, assignments, seminar presentations, terminal exams and model tests.

- **Academic support to students with special needs:**

Special assistance to students with special needs such as advanced learners ,slow learners ,students from the marginalized sections of the society and differently abled students through the 'Parent Teacher Student Association' (PTSA).

- **Initiation of New Evaluation Pattern:**

A new pattern of evaluation has been introduced that includes objective type, short answer and long answer type questions to be answered within word-limit, in question paper along with home assignments and seminar paper presentations through power point.

- **Creation of Student centric environment through ICT :**

In order to create student centric environment through ICT facilities like free internet with WI-FI system, computers, laptops, LCD projectors, Digital camera, reprographic facilities. E library concept has been introduced by installing softwares like NLIST, *Shodh Ganga* in the Central library. A commerce laboratory has been established for the study of marketing, business and economics through ICT techniques. The Language lab has been upgraded with advanced equipments and softwares.

- **Generating New Knowledge:**

Faculty members are actively involved in generating new knowledge through writing and publication of books, thesis and research articles along with developing e- content in the form of VCDs .

- **Faculty Enrichment:**

As a part of faculty enrichment measures , the college has organized 01 International Conference in 2016 and **11 national seminars/conferences** on various topics during the last five years. For details refer to 3.1.8. The faculty members have attended around 780 seminars/ workshops and conferences for professional development.

- **Familiarization of new entrants through Induction Programme:**

After admissions IQAC organizes the induction programme, in order to provide a glimpse of distinctive characteristics of the college infrastructure/facilities available, glorious traditions of the college and eminent alumni.

- **Feedback and Monitoring:**

A formal feedback designed by the Internal Quality Assurance Cell is obtained from major stakeholders.

Generation and propagation of spirit of inquiry and Societal Interface

The college has been successful in generating and propagating the spirit of enquiry in pursuit of knowledge incessantly through research and extension activities. Remarkably the faculty has contributed by undertaking major initiatives as mentioned below:

- 14 Major and 33 Minor Research Projects have been completed, and 04 Major and 08 minor Research Projects are going on. The total outlay of all the MRPs is Rs. Three Crore Eighty seven lakhs rupees.
- Faculty members and research scholars have published 156 research papers in international journals and 486 in journals of national repute.
- The college has developed linkages with external organizations for MoUs and collaborations. So far, out of 22 linkages, 04 are developed into formal MoUs.
- The mechanism to avail Seed Money introduced since 2014 -15 for sanctioned project may be withdrawn by Principal Investigator following the allocation limit and prior permission of Principal of the College.
- A substantial interdisciplinary research work is under operation.

- The college has started publishing its own peer-reviewed biannual multidisciplinary research journal *Research Expressions* having ISSN since 2016.

- **Transformation of lab work to land work :**

The Department of Biotechnology has been instrumental in determining Arsenic contamination in drinking water resource, detection of Sickle Cell Anaemia. The Department of Sociology and Psychology have jointly established a consultancy centre for generating awareness about Sickle Cell Anaemia. The department of Geology has been sharing its expertise on rain water harvesting. The department of Physics has developed a consultancy centre for study of Thermoluminescence and a Training Centre for solar technologies

- **Mentoring of schools:**

The institution provides mentorship to teachers as well as students of nearby schools, which are facing problems like poor infrastructure, shortage of teachers, and lack of ICT facilities through awareness camps, training programmes and consultancy to school teachers to update them and share new teaching methodologies.

- **Creating Awareness and Enhancement of Quality Culture through Consultancy by IQAC:**

The IQAC of the institution provides necessary consultancy regarding the preparation of SSR, development of Quality culture in higher education institutes of the region.

- **Committee for Industry-Academia Collaboration(CIAC):**

A Committee for Industry-Academia Collaboration (CIAC) has been established in 2015 to collaborate with industries and training institutes to enhance their employability through skill development.

- **SVEEP:**

The Systematic Voters' Educational and Electoral Plan (SVEEP) for Durg district is being conducted and managed by the college which works in close collaboration with the district authorities and state government and other colleges for this programme.

- **Wakefulness towards Ecological sustenance:**

In the wake of Global warming and its impact on the ecology and biodiversity it has become essential to be aware towards its conservation

and sustenance. The IQAC of the college organizes special classes for environmental studies for students of all the faculties. The projects based on environmental issues in the neighboring areas are conducted by UG students under the supervision of faculty members. A number of awareness campaigns are organized every year by the academic societies of the college.

- **Surveys and Project work:**

The project based learning system was introduced in the curriculum in the year 2013. These projects not only motivate students towards research but also give them an opportunity to get an in-depth practical knowledge of their subject. The project is a compulsory part of PG curriculum, so every year a number of projects are conducted by the students of 16 PG departments of the college. The number of projects submitted reaches almost 150 every year.

- **Regional Mathematical Olympiad :**

The Department of mathematics has been organizing 'Regional Mathematical Olympiad' in collaboration of Homi Bhabha center for science education(HBCSE) and Tata Institute of Fundamental research (TIFR); funded by Chhattisgarh Council of Science and Technology(CCOST) Since 2010. Apart from this Madhav Mathematics Competition for undergraduate students is as an annual event organized in the college in association with TIFR and S.P. college , Pune and is funded by National Board for Higher Mathematics , in which students from nearby colleges participate every year.

- **Initiative Towards Creating Awareness among Tribal ethnicity:**

A unique initiative taken by the faculty of the Department of Political Science has made a profound impact on the lives of thousands of tribal women throughout Chhattisgarh, helping them in enhancing their leadership qualities and making them aware of their unique culture.

- **Embracing Rural community of *Thanaud*:**

Based on the socio economic survey conducted by the Department of Sociology and with the consent of the members of Panchayat of village *Thanaud* , the village was formally adopted by the college with a firm strategy to address the prevailing problems of the villagers. Till now the college has conducted two awareness programmes on Sickle cell anaemia and Awareness for digital India programme.

- **Swachhha Bharat Abhiyan:**

In Chhattisgarh, village dwellers particularly women die of snake bite, are met with accidents, are vulnerable to crime when they go out during night. A street play was specially written and performed at 6 villages of Durg district between 1^{7th} March to 2^{1st} March 2015 by the students of Physics Dept. of our college; as a part of “Swachh bhara abhiyan” of Durg District, in collaboration with collectorate, Durg, NABARD and an NGO Society for Integrated development of women.

- **A door for knowledge acquisition:**

Public library facility was introduced by the central library of our college on 10.4.14 to build a rapport with the community.

- **Faculty exchange and development:**

This initiative provides opportunity to the faculty members to share their expertise and learning resources to boost up and recharge their knowledge and skills. Faculty exchange programmes with Purdue University, US, Genome Foundation, Hyderabad, BARC, Mumbai, Central University, Hyderabad, Academic societies of Nepal and Japan.

- **Expansion of Assets, Erudition and Knowledge Culture:** have been accomplished.

Expansion of assets, erudition and knowledge culture is essential for a growing institution to achieve greater heights year after year. The institution has successfully taken steps towards this such as:

Construction of 50 seater girl’s hostel, Reference section in the main library, Smart class rooms, two Seminar Halls with ICT facility, Indoor badminton hall; updation of laboratories IQAC office, NCC, NSS and Youth Red Cross offices, Pt. Sunder Lal Sharma Open University offices, canteen, etc. construction of 14 class rooms and a 100 seater boys hostel is under progress.

The library is fully computerized with bar-coding system for the library transactions. The library services are enriched with NLIST and SHODHGANGA for e resources, and addition of new textbooks, reference books and periodicals.

- **Development of ICT facilities:**

The institution is well equipped with latest softwares and modern equipments like computers, LCD projectors, audio visual seminar halls, LFD monitor display, Digitalization of Library, Administrative office, Autonomous Examination cell, Account section etc. Free WI-FI internet connectivity in the campus.

- **Catering to special needs:**

Facilities like Common room, wash room, dressing room and changing room are available for Girls/ Female staff. Separate rest room is available for female faculty members. For differently abled students, ramps and wheel chairs, specially designed furniture along with ear phones, brail books and software etc. for visually challenged students are also available.

Routing towards Student/learner Evolution:

- **Mentoring of students:**

Various committees are functioning to provide guidance and support to students to groom and train them for future ventures like, the Training and Placement Cell, Skill Development Committee, Research Cell, Guidance and Counseling Cell. Apart from this 13 Seminars, 4 conferences, 13 workshops and numerous extension activities, study tours, field visits, projects, exhibitions and skill development lectures were also organized at regular intervals to mentor students beyond the curriculum. PTSA and mentoring system has been strengthened. Every staff member is allotted about 40-50 students for assistance in personal, academic, emotional and gender issues of the students.

- **Initiative towards Employment:**

Strenuous efforts have been taken by the college to organize campus interviews to strengthen placements of the students. A committee on 'Industry-Academia Collaboration' has been formed, which organizes workshops, training programmes and invited lectures by eminent persons from Corporate & Non corporate World and Premier Research Institutes. Entrepreneurship Development Workshops are organized in regular intervals, in collaboration with Chhattisgarh Entrepreneurship Development Corporation (CEDC) to provide guidance to the students for self employment.

- **Creative Endeavours:**

The College publishes its annual magazine “*Vyanjana*”. The College Magazine and Newsletter Committee as well as the literary committees ensure active participation of students and groom their creative talents. Apart from this, students maintain their display boards and wall magazine “*Abhivyakti*”.

- **NET/ SLET Coaching:**

Some of the departments have been providing coaching for students for NET/PSC examination. The Placement Cell has actively been engaged in organizing inspirational lectures by experts aimed at guiding students towards cracking Civil Service examination. *Jan Unnayan*, an NGO formed by professors of the college selects and organizes coaching classes for students belonging to weaker socio-economic backgrounds on merit basis, for competitive exams.

- **Promoting Sportsmanship:**

Facilities like Gymnasium, Indoor stadium, Badminton Court, Tennis court and 3 Playing Grounds are available for students to facilitate a culture of sports within the campus. Coaching Camps are frequently organized for various sports.

- **Fostering social activism :**

NSS, NCC and Red Cross units have been strengthened by organizing innovative activities and their participation in state and national activities. These units bagged awards at the district, state, and national levels.

- **Counselling/ Guidance Cells:**

The Psychology Department has established a Counselling/Guidance Cell to cater the needs of students from the economically weak / marginalized sections of society and even first/second generation learners as well as those with learning disabilities.

- **Empowering Youth:**

The college has started new cells like Anti-sexual Harassment Cell, Anti Ragging Cell, Grievance Redressal Cell and Women Cell to generate awareness regarding various issues and help students. Those already in existence have achieved newer heights.

Organizational Supervision and Headship

- **In Pursuit of Scholastic Brilliance:**

The College has got the status of the College with Potential for Excellence (CPE) phase III by the UGC. The college has been included in the Star College scheme by the DBT, New Delhi, and has received the BSR grants from the UGC.

- **Grooming Leadership:**

The leadership follows the policy of participative management and provides opportunities to all the faculty members to groom and exhibit their leadership skills while working as Examination Controller, observers, superintendents, conveners, invigilators, professors-in-charge of various committees etc.

- **Examination Reforms:**

The credit based semester system (CBSC) has been implemented from July 2015 for PG courses. Provision for revaluation at UG level is already there. Letter requesting permission for revaluation of answer sheets in PG courses has been sent. Evaluation pattern has been reformed for a comprehensive and continuous assessment of students.

- **Accomplishment of Designed Proposals:**

A large number of planned proposals relating to different areas like introduction of new courses, revision of syllabi/curricula, construction and renovation of buildings, refurbishment of labs, construction of girls' hostel, smart class rooms etc. were initiated and implemented to upgrade physical infrastructure, laboratories, library resources, ICT, sports facilities, research activities and office administration.

- **Digitalization and Mechanization:**

The College has installed a vigilance system with 32 CCTV cameras to maintain discipline and better security. The security measures have been also installed in the Autonomy cell.

- **Gender Audit:**

The college has carried out Gender Audit of the college for the last five years to understand and analyze the position of gender balance in the college, and accordingly the programmes are arranged to orient against

gender disparity. Gender champions were appointed by the women cell for generating gender awareness within campus. Student strength is increasing year by year. Percentage of girls is increasing every year both in UG and PG classes.

- **Good Governance initiatives:**

The faculty, non-teaching staff and students are felicitated for their achievements on 15th August (Independence Day) and 26th January (Republic Day) every year.

- **Academic Audit:**

The College conducts Academic Audit yearly for evaluating performance of the departments. The Principal reviews the performance of the faculty and staff.

- **Role of IQAC in quality assurance:**

The IQAC of the college has been instrumental in generating awareness towards meetings are conducted regularly to provide a comprehensive review of student's performance, infrastructural availability and academic conformance. Following the recommendations of Annual Academic Audit, specific measures have been adopted to improve teaching-learning and evaluation .

Innovation and Best Practices

- **Green Initiatives:**

In order to make college eco friendly, Green Audit and Energy Audit of the college has been carried out with the help of external experts related with the fields. The college has consciously made efforts to create awareness among the stakeholders regarding environment conservation. Regarding the use of renewable energy the college has made sincere efforts such as, organizing national and college level seminars and workshops on energy audit, employment opportunities, energy harvesting materials and techniques etc. The recommendations received were sent to UGC for installation of solar panels in the college premises. A MoU has been signed with IIT Mumbai for training the college students on solar technologies.

- **Mentoring of Colleges by IQAC:**

The IQAC of the institution monitors and provides consultancy on quality-related affairs to all the colleges within Durg district. The college organizes District Quality Circle Meetings wherein quality sustenance issues are discussed.

- **Extending Academic expertise towards community :**

Initiatives have been taken to extend the academic and intellectual proficiency towards society through extension activities particularly under the umbrella of Academia- Community Interface Programme (ACIP) and other outreach programmes like Sickle Cell Anaemia Testing and Awareness Camps, Community Consultancy Services Laboratory Training Programme, distribution of *Gyan Kosh*: audio-visual lecture CDs to schools in remote areas ,Awareness Drive on Personality Enhancement, Poetry workshop, Awareness Camp on Common Prevailing Diseases, Guidance to Farmers, Mentoring of students coming from Naxal-affected area etc. are organized.

.....

OFFICE OF THE PRINCIPAL
GOVT. V.Y.T.P.G. AUTONOMOUS COLLEGE, DURG 491001 (C.G.)
(Former Name – Govt. Arts & Science College, Durg)
NAAC Grade-A, CPE Phase-III, DBT-Star College
Ph.: 0788-2211688, Fax: 0788- 2212030
Website: www.govtsciencecollegedurg.ac.in
Email : pprinci2010@gmail.com

Declaration by the Head of the Institution

I certify that the data included in this Self- study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions and no part there of has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place :

Date : 23.08.2016


Dr. Surendra Kumar Rajput

Principal
Principal
Govt. V.Y.T.P.G. Auto. College
Durg (C.G.)

OFFICE OF THE PRINCIPAL
GOVT. V.Y.T.P.G. AUTONOMOUS COLLEGE,
DURG 491001 (C.G.)
(Former Name – Govt. Arts & Science College, Durg)
NAAC Grade-A, CPE Phase-III , DBT-Star College
Ph.: 0788-2211688, Fax: 0788- 2212030
Website: www.govtsciencecollegedurg.ac.in
Email : pprinci2010@gmail.com

Certificate of Compliance

This is to certify that Govt. V.Y.T.PG Autonomous College,
Durg Chhattisgarh, fulfils all norms:

1. Stipulated by Pt. Ravishankar Shukla University Raipur,
Chhattisgarh.
2. Regulatory council/body-University Grants Commission.
3. The affiliation and recognition is valid as on date.

It is noted that NAAC's accreditation, if granted shall stand cancelled automatically, once that institution loses its University council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed at the college website.

Place : Durg

Date : 28.08.2016


Dr. Surendra Kumar Rajput

Principal

28/8/2016
Principal
Govt.V.Y.T.P.G. Autonomous College
Durg (C.G.)

Compliance Report Cycle II

The UGC Autonomous Review Committee's recommendations and its compliance are given below:

S.NO.	Recommendation	Action Taken
1.	As per New concept of H.E. credit and choice base system needs to be introduced with inter disciplinary co-ordination.	The credit based semester system has been implemented from July 2015 for PG courses.
2.	The affiliating University May be requested for allowing Re-evaluation of answer sheets both in UG and PG courses.	Provision for revaluation at UG level is already there. Letter requesting permission for revaluation of answer sheets in PG courses has been sent.
3.	To retain secrecy measures more strong the coding of answer sheets should be made before sending for evaluation.	Coding of answer sheets is being done before sending for revaluation.
4.	The college may request the university to nominate/appoint members for the Governing Bodies viz. Governing Board and academic council for smooth functioning of the college.	The affiliating university has nominated/appointed members for Governing Bodies and Academic Council and their meetings were held.

The Review committee of the University Grants Commission visited the institution in 2014. On the basis of the recommendation of the Review Committee, the UGC has extended our institution's Autonomous Status till 2020.

APPENDICES

Annexure - I



पं. रविशंकर शुक्ल विश्वविद्यालय रायपुर, (छ. ग.)

दूरभाष 0771-2262802 (अकादमिक), 0771-2262540 (कुलसचिव), फ़ैक्स-0771-2262818, 2262607

क्रमांक 2558/अका./सम्ब.वृद्धि/2015

रायपुर, दिनांक 22/01/2015

॥ आदेश ॥

विश्वविद्यालय विद्या परिषद् की स्थायी समिति की बैठक, दिनांक 11.07.2014 में की गई अनुशंसा को कार्यपरिषद् की बैठक दिनांक 18.07.2014 में अनुमोदन प्रदान किया गया है, तदनुसार निम्नलिखित महाविद्यालय को दर्शित कक्षा/विषय के साथ शुल्क जमा करने के पश्चात् विश्वविद्यालय परिनियम 27 एवं 28 की शर्तों के अधीन सम्बद्धता सत्र 2014-15 के लिए बढ़ाई जाती है।

क्र.	महाविद्यालय का नाम	कक्षा/विषय
1	शासकीय विश्वनाथ यादव तामस्कर स्नातकोत्तर स्वशासी महाविद्यालय, दुर्ग pprinci2010@gmail.com Phone No.- 0788 2211688 Mobile No.- 9039630820	Permanent Affiliation B.A. - Hindi, English, Sanskrit, History, Econo., Political Sc., Geography. B.Sc. - Physics, Chem., Math's, Botany, Zoology. M.A. - Hindi, English, Economics, Political Sc., Geography. M.Sc. - Physics, Chemi. Math's, Botany, Zoology. Non-Permanent Affiliation B.A. - Sociology, Anthro. B.Sc. - Geology, Anthro., Micro Biology, Ind. Chemistry B.Com. - All Compul. Papers & Office-Manag. & Secret. Sys. (Addl. Papers) Add. Sub. Comp. Appli. (80) B.Sc. - Computer Sc. (80) Electronics (50 Seat) B.Sc.II - Biotechnology (40) B.Sc.III, Biochemistry (15) B.Sc. - Biochemistry (40) Diploma in English (25) Add-On Course Agro Services-40 Add-On Course -Diploma in Medical Biotechnology- B.C.A.-60 B.A. -Add.Sub.-Psycho.-50 B.Lib. & Inf.Sc. (40 Seat) (2012-13) M.A. - History, Sociology, M.Sc. - Geology M.Com. PG Dip. in Clinical Patha. & Diagnostic Technology M.Sc. - Microbio.(20), Biotechnology (20) PGDCA-90 Seats M.Lib. Inf.Sc. (15 seat)

आदेशानुसार,

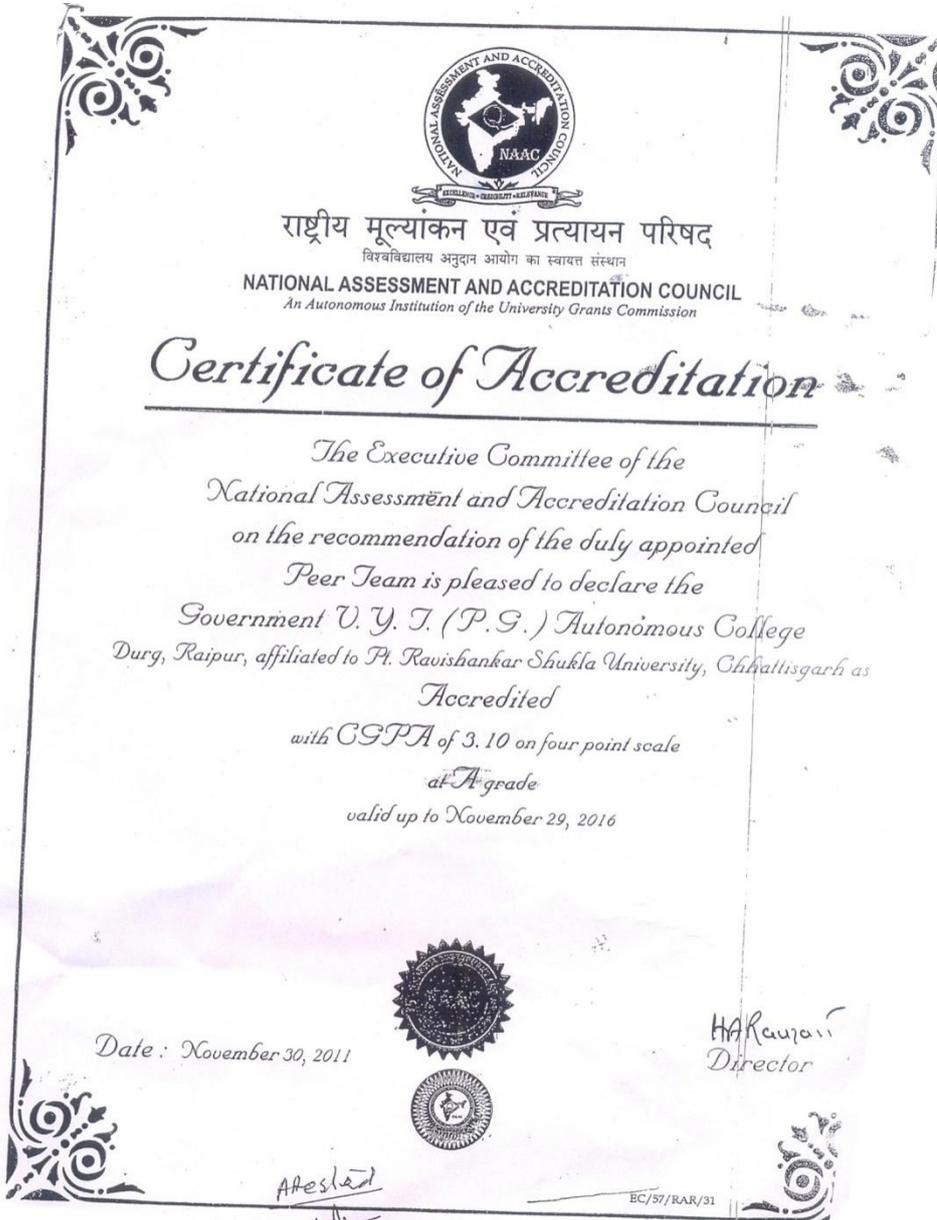
प्रभारी अधिकारी (अका.)

पृ. क्रमांक 2559/अका./सम्ब.वृद्धि/2015
प्रतिलिपि :-

रायपुर, दिनांक 22/01/2015

1. आयुक्त, उच्च शिक्षा संचालनालय, ब्लाक-सी, 30, द्वितीय तल, इन्द्रावती भवन, नया रायपुर।
 2. सम्बन्धित महाविद्यालय के प्राचार्य को,
 3. सहायक कुलसचिव (परीक्षा)/ उप कुलसचिव गोपनीय, नामांकन विभाग,
 4. कुलपति के सचिव/ कुलसचिव के निजी सहायक,
- पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

Annexure - II



Annexure -III (A)

UNIVERSITY GRANTS COMMISSION
BAHAUDUR SHAH ZAFAR MARG
NEW DELHI-110002.

Prof. S.K. Khanna
Ph.D. FIE
Secretary.

No.F.24-9/87(NFE)

April, 1988.

To

The Vice-Chancellor,
Ravi Shankar University,
Raipur.

Dear Sir,

This has reference to your recommendations for grant of autonomy to the following colleges and your letter No.27/CDC 1.56/AU.88, dated 1.2.88.

1. Govt. Arts & Science College, Durg.
2. Govt. D.B. Girls College, Raipur.

These recommendations have been concurred to by the Madhya Pradesh State Government vide letter No.2084/C-3/38/87 dated 27.8.87 from Shri S.C. Joshi, O.S.D., Higher Education Deptt., Govt. of Madhya Pradesh, Bhopal.

I am now pleased to convey concurrence of the UGC to the grant of autonomous status to the aforesaid colleges by the University. This is subject to the following:

1. The Colleges shall constitute organisational structure on the lines suggested in the UGC revised guidelines (1986) on the scheme of autonomous colleges, which may be agreed to by the University.
2. The autonomous status may be granted by the University for a period of five years in the first instance and review shall be undertaken by the University after three years as to the performance/functioning of the colleges with the help of the Committee as indicated in the UGC guidelines; and
3. The Colleges shall start functioning as 'autonomous' from the commencement of the academic session 1988-89.

Necessary orders granting autonomous status to the colleges be issued by the University under intimation to the Commission. The University may also ensure that the colleges constitute the required committees as per the UGC Guidelines.

..2/-

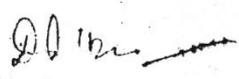
- 2 -

The UGC assistance to the Colleges will be available on receipt of information from the University that the colleges have adopted organisational structure and started functioning as autonomous colleges, in accordance with the guidelines.


(S. K. Khanna)
Secretary

Copy to:

1. The Chairman, M.P. Uchcha Shiksha Anudan Ayog, Madhya Pradesh Government, Govt. Secretariat, Bhopal.
2. Secretary, Department of Education, Ministry of Human Resource Development, New Delhi.
3. Special Secretary, Ministry of Human Resource Development, New Delhi.
4. Secretary, Department of Education, Madhya Pradesh Govt., Bhopal.
5. The Principals of the Colleges (as mentioned above)
The Principal, Govt. Arts & Science College, Durg.


(D. P. Hira)
Joint Secretary

Annexure -III (B)

डॉ. मंजू सिंह
Dr. Manju Singh

संयुक्त सचिव
Joint Secretary



दूरभाष PHONE : कार्यालय OFF : 23238876
फैक्स FAX : 011-23232297
ई-मेल E-MAIL : manjusingh.ugc@nic.in

विश्वविद्यालय अनुदान आयोग
बहादुर शाह ज़फर मार्ग,
नई दिल्ली-110 002 (भारत)

UNIVERSITY GRANTS COMMISSION
Bahadur Shah Zafar Marg,
New Delhi-110 002 (INDIA)

BY SPEED POST

No.F. 22-1/2014(AC)

June, 2014
19 JUN 2014

The Registrar,
Pt. Ravishankar Shukla University,
Raipur – 492 010.

Sub: - Grant of Extension of Autonomous Status to Govt. V.Y.T. PG Autonomous College, Durg
(C.G.) – 491 001 affiliated to Pt. Ravi Shankar Shukla University, Raipur.

Sir,

This has reference to this office letter No. 22-1/2009(AC) dated 16 Nov. 2009 on the captioned subject for grant of extension of autonomous status and subsequent visit of the UGC Joint Expert Review Committee held on 23rd and 24th May 2014.

The report of the aforesaid UGC Joint Expert Review Committee was placed before the Standing Committee constituted for the purpose by the Commission to look into the recommendation of Expert Committee report for grant of extension as well as fresh autonomous status to colleges before its recommendations are placed before the Commission for its final approval or otherwise as the case may be.

The recommendations of this Standing Committee were placed before the Commission at its meeting held on 13.06.2014. The Commission, after taking due consideration of the recommendations of the Standing Committee, agreed to grant extension of autonomous status to Govt. V.Y.T. PG Autonomous College, Durg (C.G.) – 491 001 affiliated to Pt. Ravi Shankar Shukla University, Raipur under the UGC autonomous colleges scheme for a period of six years w.e.f. the academic year i.e. 2014-2015 to 2019-2020 including ex-post-facto approval from 2013-2014.

The Pt. Ravishankar Shukla University, Raipur may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down as per applicable Plan Guidelines for Autonomous Colleges by The Deputy Secretary, UGC Central Regional Office, Tawa Complex, Bittan Market, E-5, Arera Colony, Bhopal – 462 016.

Yours faithfully,

(MANJU SINGH)

Contd....

9	M.Sc.-III, IV Semester(Biotechnology & Microbiology) Self Financing	16097	15982	15962
10	M.Sc. (Maths)/M.A./M.Com.- I, II Semester	1217		1102
11	M.Sc. (Maths)/M.A./M.Com.-III, IV Semester	1077		962
12	M.Sc. I & II, Semester	1237		1102
13	M.Sc.- III, IV Semester	1097		962
14	M.Lib. & I.Sc.			25,000
14	Ph.D.- Arts Faculty/Commerce Faculty			6137
15	Ph.D.-Science Faculty			8717

Certificate from the Principal for fee structure attached as – **Annexure-XII**

III) Examination Reforms

- Quarterly and Half yearly exams at UG level are being organized.
- PG level students are evaluated through seminars, Internal Assessment test and group discussion.
- Dissertation work has been introduced in fourth semester in lieu of one/two theory papers in Geology, Microbiology and Biotechnology.
- Project work in semester IV has been introduced in all science, sociology, geography and commerce departments.
- A compulsory field work introduced in some departments.
- Semester system of examination was introduced at PG level since 2006
- Provision for revaluation exists for UG classes and provision for re-totalling of marks at PG & UG level is there. Revaluation is abolished since 2012 in PG classes as per the notification of affiliating University.
- ATKT system is adopted at PG level in semester system as per UGC norms.
- Semester system is proposed to be introduced at UG level.
- Preparation of Question Bank is in progress.

- (a) Whether the committee is satisfied with the present mode of the examination being conducted by the college? Any specific method of evaluation which the committee would like to suggest to them may be indicated. *Yes - See Point no. 03*
- (b) Interaction with students/Non-teaching staff, give specific comments in detail for such interaction undertaken. *Yes - Aue*

IV. Administrative Activities (for review of Autonomous Status College only)

Whether the Governing Body, Academic Council, Board of Studies and Finance Committee meeting are being conducted by the college periodically or not. Specific comments in details with regard to resolutions passed by the above bodies in the recent past may be given.

- a. **Board of studies –**
Meeting of the Boards of studies of the departments is held every year in the beginning of the session since the autonomous scheme has been introduced.
- b. **Governing Board –** On 14.07.2009, 27.08.2010 and 05.11.2011. Meetings have not been convened there after since the members of GB have not been nominated by the affiliating university.

Aue

(Signature)

11

(Signature)

M. Massey
Sabit Kumar

- c. **Academic Council** – On 17.05.2008, 11.05.2009, 03.07.2010, 10.09.2011. . Meetings have not been convened there after since the members of GB have not been nominated by the affiliating university.
- d. **Finance Committee** – 14.07.2009, 11.02.2010, 08.09.2011, 22.02.2012, 24.09.2012, 11.10.2013, 27.11.2013.
- (a) Comments regarding the self financing courses being offered
- Satisfactory
- Comments regarding the fee structure being in force
- The fee structure is as per University/State Government norms.

- (V) **Financial Utilization of UGC funds:** Specific comments be given (Give details of Autonomy Grant /General Development grant, if any received by the college for the last five years separately)

S.No	Name of the scheme	Grant allocated	Grant received	Grant utilized
A)	X Plan Development Assistance			
	(i) UG Development Assistance	1248480	971040	896793
	(ii) PG Development Assistance	11,40,440	11,40,972	1001739
	(iii) Women's Hostel	-	-	-
	Total	23,88,920	1964779	*1898532
B)	XI Plan Development Assistance			
	(i)UG Development Assistance	2000000	2000000	1975000
	(ii)PG Development Assistance	4900000	4620000	4920000
	(iii)14 merged Scheme	2235000	1637000	1575000
	(iv) Special Assistance for requirements	9135000	8257000	8470000
	1) CPE-I	1000000	1000000	10300000
	2) CPE-II	7500000	6750000	6750000
	3) CPE-III	1200000	Grant yet to be released	-
	4) BSR	3600000	3600000	3600000
		1000000	3000000	943000
	5) Additional Grant	5000000	1000000	4423000
	6) Sports	7250000	4500000	3625000
	7) Girls Hostel	8000000	3625000	In progress
			4000000	
	Total	30125000	27475000	**32641000
c)	Grant Received during XII plan	87,00000	34,80,000	In progress
d)	Autonomous Grant			
	2007- 08	2000000	Grant not received from UGC	1425700
	2008-09	2000000	Grant not received from UGC	1454457
	2009- 10	2000000	Grant not received from UGC	1517152

	2010- 11	2000000	2000000	1944804
	2011-12	2000000	Grant not received from UGC	1618448
	2012-13		Grant not received from UGC	2090841
	Total	1000000	2000000	10051402

* Accounts settled. Copy of UGC letter enclosed as -Annexure- XIII

** Expenditure being audited. Utilization certificate to be submitted to UGC shortly.

OBSERVATIONS OF THE COMMITTEE:

The overall functioning of the College as well use of autonomy was found satisfactory.

(V) Recommendations and suggestions of the Committee:

Suggestions

1. As per new concept of higher education, credit and choice bases system needs to be introduced with inter-disciplinary co-ordination.
2. The affiliating University may be requested for allowing re-evaluation of answer sheets both in UG and PG courses..
3. In order to make the secrecy measures more strong, the coding of answer sheets should be made before sending for evaluation.
4. The College may request the affiliating University to nominate/appoint members for the Governing Bodies viz. Governing Board and Academic Council for smooth functioning of the College.

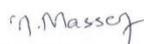
Recommendations:

The Committee unanimously recommends giving ex-post facto approval for conferment of extension of autonomous status to the college for the year 2013-14. The Committee also recommends that the College may be given extension of its autonomous status for a further period of six years from 2014-15 to 2019-20.

Place : Durg (Chhattisgarh)
Date : 24th May, 2014

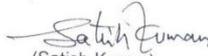

(Prof. A.S. Dua)
Chairman


(Dr. R.R. Malik)
Member


(Dr. M. Massey)
Member


(Dr. P.C. Choubey)
State Government Nominee

(Prof. S.K. Jadhav)
University Nominee
Attended for one day and
was not available on second
day


(Satish Kumar)
UGC Co-ordinating Officer

Annexure -IV

PEER TEAM REPORT ON Institutional Re-Accreditation of Govt.V.Y.T.PG Autonomous College	
Place: DURG	State: Chhattisgarh
Section I : General	Information
1.1 Name & Address of the Institution	Govt. V.Y.T.P.G Autonomous College, Durg, (C.G.)
1.2 Year of Establishment:	18.08.1958
1.3 Current academic Activities at the Institution (Numbers):	U.G: B.A., B.Sc., B.Com, B.C.A. P.G: Science; Arts; Language.
• Faculties / Schools:	3
• Departments/ Centres:	UG: 20 PG: 16
• Programmes / Courses Offered	UG: 4 PG: 16 Research : 14
• Permanent Faculty Members	88
• Permanent Support Staff:	43
• Students	3228
1.4 Three major features in the institutional context (As perceived by the Peer Team):	<ul style="list-style-type: none"> • College with Potential for Excellence (Phase I completed & Phase II running) • Enjoys Autonomous status since 1989 • Has 16 PG Depts & 14 of them Recognized as Research Centres
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	26 th September 2011 to 28 th September 2011
1.6 Composition of the Peer Team which undertook the on – site visit:	
Chair person	Prof. Arabinda Kumar Das.
Member Coordinator	Prof. I.Ramabrahmam.
Member	Prof. Sr. Albina.
NAAC Officer	Dr. Ganesh Hegde.

Section II: CRITERION WISE ANALYSIS	Observations (Strengths and/or Weaknesses) on Key-Aspects (Please limit to three major ones for each and use telegraphic language (It is not necessary to indicate all the three bullets each time; write only the relevant ones)
<p>2.1 Curricular Aspects:</p> <p>2.1.1 Curricular Design & Development :</p> <p>2.1.2 Academic Flexibility:</p> <p>2.1.3 Feedback on Curriculum</p> <p>2.1.4 Curriculum Update</p>	<ul style="list-style-type: none"> • Curriculum is in tune with the vision and mission of the institution. • Importance is given to Women's education. • A few job oriented courses are introduced. • There are a few self financed and add on courses. • The Government and University play an important role in designing new academic programmes. • Though an autonomous institution it enjoys only partial freedom in academic flexibility. • Formal written feedback is obtained from students. • Oral and informal feedback obtained from parents, alumni; published reports in local newspapers and news channels are considered. • Curriculum and infrastructural facilities are upgraded based on the feedback from the students and public. • UGC curriculum is followed at PG level and syllabus is reviewed every year and updated once in 2 years. • UG curriculum is framed by the parent university • Recommendations of the stakeholders is considered while updating the curriculum.

ASG

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<p>2.1.5 Best Practices in Curricular Aspects: (if any):</p>	<ul style="list-style-type: none"> • Equal importance is given to basic, applied and vocational courses. • Feedback from stakeholders is used for curriculum revision and upgradation.
<p>2.2 Teaching – Learning & Evaluation: 2.2.1 Admission Process and Students Profile:</p> <p>2.2.2 Catering to the Diverse Needs:</p> <p>2.2.3 Teaching - Learning Process:</p> <p>2.2.4 Teacher Quality :</p>	<ul style="list-style-type: none"> • Wide publicity is given through prospectus, college website and advertisement in local newspapers. • Transparency in admission followed and merit based admissions done. • Government reservation policy adopted in admitting women, SC, ST, OBC, differently abled, NSS, NCC and candidates from economically weaker sections. • Induction programme for the PG students conducted before the commencement of academic programme. • Remedial coaching is conducted for SC/ ST students; tutorials and remedial courses conducted for slow learners in some science subjects, all funded by UGC • Encourages differently abled in various ways. • Generally conventional methods used to impart learning, supplemented by ICT. • Student centric learning encouraged. • Adheres to syllabus completion schedules. • Recruitment of faculty is done through Public Service Commission by State Government. • Against 94 sanctioned posts 88 in position; 16 additional faculty appointed by the College Janbhagidari Committee. • Qualification of Faculty consists of 78% Ph.D, 7% M.Phil, 2% UGC NET/SLET qualified.

<p>2.2.5 Evaluation Process and Reforms :</p> <p>2.2.6 Best Practices in Teaching - Learning and Evaluation (If any):</p>	<ul style="list-style-type: none"> • Staff are encouraged to avail of the UGC schemes, attend seminars, conferences and refresher courses. • Autonomous system permits continuous monitoring and evaluation of students' performances. • Students are aware of the pattern of examination and evaluation i.e, of 20% internal assessment and 80% End Semester Exam. • Result is made known to students, parents and all stakeholders. • Summer internships for students in National laboratories and other Universities and industries. • Introduction of semester system for PG students since 4 years.
<p>2.3 Research, Consultancy & Extension:</p> <p>2.3.1 Promotion of Research :</p> <p>2.3.2 Research and Publications Output:</p>	<ul style="list-style-type: none"> • Awards like - US Fulbright, Commonwealth fellowship, UGC Women Research Fellowship. • There are 32 minor and 11 major ongoing research projects funded by UGC, DST, BARC, DBT, CGST and The State Government. • College has a good Central/Departmental Library and laboratories. • Many departments have research labs to promote research funded by UGC, DST-FIST, BARC. • The faculty is actively involved in research and have published, 328 research papers in National journals, 63 in international journals, 32 books and 3 monographs. • Staff have been attending National and International seminars and workshops to enhance their knowledge in teaching quality.

<p>2.3.3 Consultancy :</p> <p>2.3.4 Extension Activities :</p> <p>2.3.5 Collaborations:</p> <p>2.3.6 Best Practices in Research, Consultancy and Extension (if any):</p>	<ul style="list-style-type: none"> • The faculty offers consultancy free of cost to general public, Municipal Corporation, District level authorities on health, environment and on Socio –Economic issues. • As a Government institution no fees can be charged for consultancy. • NCC and NSS are actively involved in awareness programmes in the rural areas on health and hygienic conditions, environment issues and conservation of natural resources. • Organize blood donation camps, assist in pulse polio programmes, awareness on <i>Sickle Cell Anaemia, and Arsenosocis</i>. • Voluntary organization of faculty members active. • Institution has research collaboration with International and national universities, Institutes of research and higher learning. • All the SC/ ST/ OBC/ Minority students are provided scholarships by the Government. • Academic achievements of the staff are highlighted by providing publicity and recognition. • Few faculty members have attained National & International recognitions.
<p>2.4 Infrastructure and Learning Resources:</p> <p>2.4.1 Physical Facilities for Learning:</p>	<ul style="list-style-type: none"> • Situated on 14.25 acres of land has 49 class rooms, 19 laboratories, faculty chambers, an audio visual and a conference hall. • Has parking space, both for staff & students and play grounds, supply of drinking water. • The college has hostel facilities for 56 boys with 8 acres land.

2.4.2 Maintenance of Infrastructure:	<ul style="list-style-type: none"> • Equipment is maintained with UGC IMF Grant and PWD maintains buildings, water supply and electricity. • Staff is appointed for cleanliness and maintenance.
2.4.3 Library as Learning Resource:	<ul style="list-style-type: none"> • Library has a carpet area of 5645 sqft. and 250 seating capacity and has a total of 86756 volumes and 16986 titles, and a number of Indian Journals, magazines and periodicals. • Has INFLIBNET connectivity along with 220 CDs / DVDs, 2100 online journals and 51000 e books. • Library is partially automated, the library committee decides on allocation of funds.
2.4.4 ICT as Learning Resources:	<ul style="list-style-type: none"> • Has about 180 computers. • WIFI, internet facility as well as ICT programmes are available both for staff and students. • Has a website and is updated as and when required.
2.4.5 Other Facilities:	<ul style="list-style-type: none"> • Has facilities for indoor and outdoor games, sports and canteen and auditorium, student cheap store. • UGC sponsored IMF is available since 2008.
2.4.6 Best Practices in the development of Infrastructure and learning Resources (If any):	<ul style="list-style-type: none"> • PG departments have independent libraries. • Spacious campus with master plan for growth. • Instrumentation Maintenance Facility available.
2.5 Student Support and Progression: 2.5.1 Student Progression:	<ul style="list-style-type: none"> • Orientation programme held at entry point for PG students, tutorials conducted for students who are academically backward. • Category-wise students strength has grown,



<p>2.5.2 Student Support:</p> <p>2.5.3 Student Activities:</p> <p>2.5.4 Best Practices in Student Support and Progression (If Any):</p>	<p>number of women students has also increased and dropout rate is small for UG and nil for PG.</p> <ul style="list-style-type: none"> • Institution has a good monitoring mechanism for student progression. • Students avail of all government scholarships. • Book bank facility for economically disadvantaged students and Braille materials for visually impaired. • Alumni contribute resources and technical support to the institutional development and for student benefit. • Students of NSS and NCC organize health and blood donation camps; NCC cadets have performed remarkably. • Participation in Intercollegiate competitions and social activities are praise worthy. • Students' participation in inter-collegiate, National and International levels in sports is remarkable. • Academic Performance is good. • Remedial coaching is provided. • The college serves the needs of rural and backward students and tries to achieve its mission and vision.
<p>2.6 Governance and Leadership: 2.6.1 Institutional Vision and Leadership:</p> <p>2.6.2 Organizational Arrangements:</p>	<ul style="list-style-type: none"> • The Management has the desire to develop. • The head of the institution is responsible for its smooth functioning • The principal conducts review meetings of committees. • Hierarchical structure is clear and their roles are defined.

Signature

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2.6.3 Strategy Development and Deployment:	<ul style="list-style-type: none"> • As a Government institution Government plays a major role in the institution. • Various statutory bodies such as academic, administrative and financial are functioning in co-ordination with others.
2.6.4 Human Resource Management:	<ul style="list-style-type: none"> • College has availed of 43 major and minor research projects funded by UGC and other agencies. • Various committees monitor the planning, implementation and evaluation of the activities. • Inter-departmental co-operation need to increase.
2.6.5 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> • Staff is recruited by the State Government • For self financing courses it is done by the expert committee channeled through <i>Janbhagidari</i>. • Skill up-gradation of <i>karamcharis</i> to be taken up.
2.6.6 Best Practices in Governance and	<ul style="list-style-type: none"> • Government meets all the expenses of the institution. • There is internal and external audit. • Fees charged by the government is minimum. • Well defined duties and responsibilities.
2.7 Innovative Practices: 2.7.1 Internal Quality Assurance System:	<p>various committees.</p> <ul style="list-style-type: none"> • Appreciable research fund is availed of and utilized for R & D.
	<ul style="list-style-type: none"> • Academic assessment is done annually by the BOS and Academic Council



<p>2.7.2 Inclusive Practices:</p> <p>2.7.3 Stakeholder Relationships:</p>	<ul style="list-style-type: none"> • New academic interdisciplinary initiatives launched under add on course eg. Medical Biotechnology. • IQAC can be more effective. • Reservation norms adhered to; laudable service rendered to physically challenged and other marginalised groups. • Research into disease such as <i>Sickle Cell Anaemia, and Arsenosis</i> constitute the core of extension programmes of the Institution. • NSS/NCC facilitate organization of sensitization programmes on health & welfare related needs • Teachers, Public servants, Industrial representatives, Parents and alumni are involved in academic activities. • Local representation through <i>janbhagidari</i> help in promoting quality in education. • Stakeholders enjoy a sense of belonging to the institution and are grateful to the Government and the institution for quality education.
<p>Section III: Overall Analysis</p>	<p>Observations (Please limit to five major ones for each and use telegraphic language (It is not necessary to denote all the five bullets for each),</p>
<p>3.1 Institutional Strengths:</p>	<ul style="list-style-type: none"> • Outreach programmes are launched to promote awareness among the rural people. • Infrastructure and laboratory facilities upgraded to meet the needs of the community. • As a government institution low fees charged and scholarships provided makes the higher education accessible to the poor.



3.2 Institutional weaknesses:

- Research work is strong and the staff are engaged in high end research which is made possible through sophisticated instruments like AAS,FTIR,GC etc.
- Staff well qualified, some are outstanding.
- Hostel accommodation for girl students yet to be provided.
- Student placements to be improved.
- Encourage use of ICT by all departments in teaching learning process.
- Audio - Visual facilities required to be enhanced.
- All the vacancies yet to be filled up even though the institution comes under Government Administration.

3.3 Institutional Challenges:

- Introduce more innovative programmes.
- Campus placements to be enhanced.
- Greater exposure of students to the wider competitive world.
- Need for developing interdisciplinary research and community outreach programmes.
- Lack of good communication skills and insufficient knowledge of English limit mobility of students and their job opportunities.

3.4 Institutional Opportunities:

- Work for the welfare of students from rural and/ economically disadvantaged sections.
- Availing all the Government Schemes and finances to establish vocational programmes.



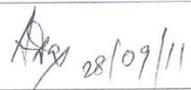
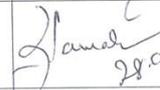
	<ul style="list-style-type: none"> • Engage students & staff on Environment issues. • Scope for Building up data base on the socio-economic status of the people of the State. • Need to identify courses aimed at increasing human resources.
<p>Section IV: Recommendations for Quality Enhancement of the Institution (Please limit to Ten major ones and use telegraphic language) (It is not necessary to indicate all the ten bullets)</p>	
<ul style="list-style-type: none"> • Some of the recommendations made in the first evaluation are yet to be implemented. • Research culture be promoted in all departments and research findings be taken back to the community. • Steps may be taken towards resource mobilization through consultancy. • With the present linkages the Institution may work towards Memorandum of Understanding. • Existing vacancies be filled up by the Govt. for quality maintenance. • Programmes such as Environmental Science, Environmental Economics could be included in the curriculum. • Work towards complete automation of the library and the Administrative Section. • Priority may be given for Gender studies and studies on tribals, and initiate study on political economy of Chhattisgarh. 	

- Researches may be encouraged to reap the benefits of Intellectual Property Rights (IPR) and venture for Patents.
- Freedom granted to the institution under autonomy to device examination, evaluation reforms be utilized.

I agree with the Observations of the Peer Team as mentioned in this report.

Signature of the Head of the Institution
Seal of the Institution
Principal
Govt V.Y.T P G Autonomous
College, Durg (C.G.)

Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. Arabinda Kumar Das	Chairperson	 28/09/11
Prof. I. Ramabrahmam	Member Coordinator	 28.9.2011
Prof. Sr. Albina	Member	 28/9/11
Dr. Ganesh Hegde, Asst. Advisor, NAAC, Bangalore	NAAC Officer	

2226131, 22261701, 22261721, 22261116
1226113, 22262217, 22262735, 22262437

www.ugc.ac.in

F.8-384/2005 (CPP-1)

The Registrar,
Pt Ravishankar Shukla University,
Raipur (Chhattisgarh).

Sub: Change in the name of College in the list of Colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter No. 892/05 dated 11-10-2005 received from the College on the subject cited above and to say that the name of the following College has been changed in the list of Colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head Non-Government Colleges teaching upto Post Graduate Degree:

Existing name of College

Government Arts and
Science College,
Durg, (M.P.)

New name of the College

Government Vishwanath Yadav Tamskar
P.G. Sayshat Mahavidyalaya,
Durg (M.P.)

Yours faithfully,

(Mr. Urmil Gulati)
Under Secretary

Copy to:

1. The Principal, Government Vishwanath Yadav Tamskar P.G. Sayshat Mahavidyalaya, Durg (M.P.)
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi-110 001.
3. The Secretary, Government of Gujarat, Department of Higher Education, Gandhinagar (Gujarat).
4. Joint Secretary, Central Regional Office, Tawa Complex, Bitan Market, E-5, Arera Colony, Bhopal-462 016 (M.P.)
5. Publication Officer, UGC-Website, New Delhi.
6. Section Officer (F.D.-III Section) U.G.C., New Delhi.
7. All Sections, U.G.C, New Delhi.
8. Guard file.

(B.R. Nigpal)
Section Officer

A-16

UNIVERSITY GRANTS COMMISSION
 BAHADUR SAHAI ZAIAN MARG
 NEW DELHI-110002.

Prof. S.K. Khanna
 Ph.D. F.I.C.
 Secretary.

No.F.24-9/87(IIE)

April, 1988.

To

The Vice-Chancellor,
 Ravi Shankar University,
 Raipur.

Dear Sir,

This has reference to your recommendations for grant of autonomy to the following colleges and your letter No.27/CDC F.56/AU.88, dated 1.2.88.

1. Govt. Arts & Science College, Ourg.
2. Govt. O.S. Girls College, Raipur.

These recommendations have been concurred to by the Madhya Pradesh State Government vide letter No.2084/C-3/38/87 dated 27.8.87 from Shri S.C. Joshi, O.S.D., Higher Education Deptt., Govt. of Madhya Pradesh, Bhopal.

I am now pleased to convey concurrence of the UGC to the grant of autonomous status to the aforesaid colleges by the University. This is subject to the following:

1. The Colleges shall constitute organisational structure on the lines suggested in the UGC revised guidelines (1986) on the scheme of autonomous colleges, which may be agreed to by the University.
2. The autonomous status may be granted by the University for a period of five years in the first instance and review shall be undertaken by the University after three years as to the performance/functioning of the colleges with the help of the Committee as indicated in the UGC guidelines; and
3. The Colleges shall start functioning as 'autonomous' from the commencement of the academic session 1988-89.

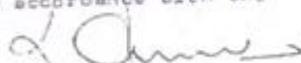
Necessary orders granting autonomous status to the colleges be issued by the University under intimation to the Commission. The University may also ensure that the colleges constitute the required committees as per the UGC Guidelines.

..2/-

conf

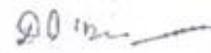
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The UGC assistance to the Colleges will be available on receipt of information from the University that the colleges have adopted organisational structure and started functioning as autonomous colleges, in accordance with the guidelines.


(S.K. Khanna)
Secretary

Copy to:

1. The Chairman, M.P. Uchche Shiksha Anudan Ayog, Madhya Pradesh Government, Govt. Secretariat, Bhopal.
2. Secretary, Department of Education, Ministry of Human Resource Development, New Delhi.
3. Special Secretary, Ministry of Human Resource Development, New Delhi.
4. Secretary, Department of Education, Madhya Pradesh Govt., Bhopal.
5. The Principals of the Colleges (as mentioned above)
The Principal, Govt. Arts & Science College, Bhopal.


(D.P. Hira)
Joint Secretary



विद्या-विद्यया विद्यते

UNIVERSITY GRANTS COMMISSION
STATUS LIST OF APPROVED 575 AUTONOMOUS COLLEGES AS ON 01.08.2016

S.No	Name of State	S.No.	University Name	No. of Autonomous Colleges	Sub Total
1.	ANDHRA PRADESH	1	Acharya Nagarjuna University	14	130
		2	Adikavi Nannaya University, Rajamundry	08	
		3	Andhra University, Visakhapatnam	14	
		4	Jawaharlal Nehru Technological University, Kakinada, A.P.	15	
		5	Jawaharlal Nehru Technological University, Anantapur	13	
		6	Jawaharlal Nehru Technological University, Kakatiya, Hyderabad	24	
		7	Kakatiya University	06	
		8	Krishna University, Machilipatnam	03	
		9	Osmania University, Hyderabad	23	
		10	Rayabasema University, Kumool	04	
		11	Sri Krishnadevaraya University	02	
		12	Sri Venkateswara University, Tirupathi	03	
		13	Vikrama Simhapuri University, Nellore	01	
2.	ASSAM	1	Dibrugarh University, Assam	02	02
3.	CHHATTISGARH	1	Guru Ghasidas University	03	10
		2	Pt. Ravi Shankar University	06	
		3	Sarguja Vishwavidyalaya, Ambikapur	01	
4.	GOA	1	Goa University	01	01
5.	GUJARAT	1	Bhavnagar University	01	04
		2	Gujarat University, Ahmedabad	01	
		3	Gujarat Technological University, Gujarat	01	
		4	Saurashtra University, Rajkot	01	
6.	HARYANA	1	Kunjahera University	01	01
7.	HIMACHAL PRADESH	1	Himachal University	05	05
8.	JAMMU & KASHMIR	1	University of Jammu	02	03
		2	University of Kashmir	01	
9.	JHARKHAND	1	Kolhan University, Chaibasa	01	05
		2	Ranchi University	04	
10.	KARNATAKA	1	Bangalore University	16	45
		2	Davangere University	02	
		3	Gulbarga University	01	
		4	Karnataka University	02	

Autonomous Colleges

Page 1

5
Gov. V.Y.T.J.S. Autonomous College
— Durg (C.G.) —

AFFILIATED TO: VIKRAMA SIMHAPURI UNIVERSITY, NELLORE			
130.	Dodla Kausalyamma College for Women, Dargamitta, Near S.P. Office, Nellore-524 001 (AP)	2016-2017	2016-2017 to 2021-2022
STATE: ASSAM			
AFFILIATED TO: DIBRUGARH UNIVERSITY			
131.	Jagannath Barowah College, Barpatra Ali Jorhat, P.O. Jorhat-785 001	2016-2017	2016-2017 to 2021-2022
132.	North Lakhimpur College P.O. Khelmati, North Lakhimpur, Assam. Pin - 787 031	2013-2014	2013-2014 to 2018-2019
STATE: CHHATISGARH			
AFFILIATED TO: GURU GHASIDAS UNIVERSITY			
133.	Old Name is Govt. Girls P.G. College, Bilaspur (Chhatisgarh)-495001 New Name Govt. E. Raghavendra Rao PG Science College, Seepat Road (CG)	1987-1988	2011-2012 to 2016-2017
134.	Old Name is Govt. Science P.G. College Sard Road Bilaspur (C.G.)-495006 New Name Govt. Bilas Girls PG Autonomous College, Bilaspur in front of Police Line Road, CG - 495 001	1987-1988	2011-2012 to 2016-2017
135.	K.G. Arts & Science College Raigarh-496 001 (CG) Raigarh	1987-1988	2011-2012 to 2015-2016 The college may be asked to reapply from the year 2016-2017
AFFILIATED TO: PT. RAVI SHANKAR SHUKLA UNIVERSITY			
136.	Old Name is Govt. College of Science Raipur (CG) - 492 010. New Name Govt. Nagarjuna PG College of Science, Raipur - 492 010	1988-1989	2007-2008 to 2012-2013
137.	Govt. D.B. Girls PG College Kalibadi Chowk Raipur (CG)-492 001.	1988-1989	2007-2008 to 2012-2013
138.	Govt. Degree College Jagdalpur, Bastar, (CG)	1988-1989	2010-2011 to 2012-2013
139.	Govt. Digvijay Autonomous College, Rajnandgaon-491 441 (Chhatisgarh)	1988-1989	2014-2015 to 2019-2020

Autonomous Colleges

Principal
Govt. V.V.T. College

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140.	Old name is Govt. Arts & Science College Durg (CG) - 491 001 New Name Govt. V.Y.T. (PG) Autonomous College, Durg. (CG)-491001	1988-1989	2014-2015 to 2019-2020
141.	Old Name is Kalyan Arts & Commerce College, Bhilai Nagar (Durg) CG New Name Kalyan PG College, Sector -7, Bhilai Nagar, Dist Durg-490 006, CG	1988-1989	2013-2014 to 2018-2019
AFFILIATED TO: SARGUJA VISHWAVIDYALALA, AMBIKAPUR			
142.	OLD NAME Govt. P.G. College, Ambikapur Dist.-Gurguja Chhattisgarh-497001. NEW NAME Rajeev Gandhi Govt. Postgraduate College, Ambikapur, Sarguja (CG)	1987-1988	2011-2012 to 2016-2017
STATE : GOA			
AFFILIATED TO : GOA UNIVERSITY			
143.	Parvatibai Chowgule College of Arts and Sciences, Margao, Goa	2014-2015	2014-2015 to 2019-2020.
STATE : GUJARAT			
AFFILIATED TO: BHAYNAGAR UNIVERSITY			
144.	Lok Bharati Lok Seva Mahavidyalaya, Sanasara - 364 230 Dist. Bhavnagar Gujarat	1992-1993	2013-2014 to 2018-2019
AFFILIATED TO: GUJARAT UNIVERSITY, AHMEDABAD			
145.	St. Xavier's College, Navrangpura, P.O. Box 4168, Ahmedabad - 380 009, Gujarat	2014-2015	2014-2015 to 2019-2020
AFFILIATED TO: GUJARAT TECHNOLOGICAL UNIVERSITY, GUJARAT			
146.	Birla Vishvakarma Mahavidyalaya (Engineering College), Vallabh Vidyanagar - 388 120, Gujarat	2015-2016	2015-2016 to 2020-2021
AFFILIATED TO: SAURASHTRA UNIVERSITY, RAJKOT			
147.	Shree Manubhai Virani & Smt. Navalben Virani Science College, Yagnidham Gurukul, Kalaswad Road, Rajkot-360005 (Gujarat)	2012-2013	2012-2013 to 2017-2018

Autonomous Colleges

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डॉ. मंजू सिंह
Dr. Manju Singh

संयुक्त सचिव
Joint Secretary



दूरभाष PHONE : कार्यालय OFF : 23238876

फैक्स FAX : 011-23232297

ई-मेल E-MAIL : manjusingh.ugc@nic.in

विश्वविद्यालय अनुदान आयोग

बहादुर शाह ज़फर मार्ग,
नई दिल्ली-110 002 (भारत)

UNIVERSITY GRANTS COMMISSION

Bahadur Shah Zafar Marg,
New Delhi-110 002 (INDIA)

BY SPEED POST

No.F. 22-1/2014(AC)

June 2014
19 JUN 2014

The Registrar,
Pt. Ravishankar Shukla University,
Raipur - 492 010.

Sub: - Grant of Extension of Autonomous Status to Govt. V.Y.T. PG Autonomous College, Durg
(C.G.) - 491 001 affiliated to Pt. Ravi Shankar Shukla University, Raipur.
Sir,

This has reference to this office letter No. 22-1/2009(AC) dated 16 Nov. 2009 on the captioned subject for grant of extension of autonomous status and subsequent visit of the UGC Joint Expert Review Committee held on 23rd and 24th May 2014.

The report of the aforesaid UGC Joint Expert Review Committee was placed before the Standing Committee constituted for the purpose by the Commission to look into the recommendation of Expert Committee report for grant of extension as well as fresh autonomous status to colleges before its recommendations are placed before the Commission for its final approval or otherwise as the case may be.

The recommendations of this Standing Committee were placed before the Commission at its meeting held on 13.06.2014. The Commission, after taking due consideration of the recommendations of the Standing Committee, agreed to grant extension of autonomous status to Govt. V.Y.T. PG Autonomous College, Durg (C.G.) - 491 001 affiliated to Pt. Ravi Shankar Shukla University, Raipur under the UGC autonomous colleges scheme for a period of six years w.e.f. the academic year i.e. 2014-2015 to 2019-2020 including ex-post-facto approval from 2013-2014.

The Pt. Ravishankar Shukla University, Raipur may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down as per applicable Plan Guidelines for Autonomous Colleges by The Deputy Secretary, UGC Central Regional Office, Tawa Complex, Bittan Market, E-5, Arera Colony, Bhopal - 462 016.

Yours faithfully,

(MANJU SINGH)


Principal
Govt. V.Y.T.P.G. Autonomous
College Durg (C.G.)

Contd.....

9	M.Sc -III, IV Semester(Biotechnology & Microbiology) Self Financing	16097	15982	15962
10	M.Sc. (Maths)/M.A./M.Com. - I, II Semester	1217		1102
11	M.Sc. (Maths)/M.A./M.Com. -III, IV Semester	1077		962
12	M.Sc. I & II, Semester	1237		1102
13	M.Sc - III, IV Semester	1097		962
14	M.Lib. & I.Sc.			25,000
14	Ph.D. - Arts Faculty/Commerce Faculty			6137
15	Ph.D. -Science Faculty			8717

Certificate from the Principal for fee structure attached as – Annexure-XII

III) Examination Reforms

- Quarterly and Half yearly exams at UG level are being organized.
- PG level students are evaluated through seminars, Internal Assessment test and group discussion.
- Dissertation work has been introduced in fourth semester in lieu of one/two theory papers in Geology, Microbiology and Biotechnology.
- Project work in semester IV has been introduced in all science, sociology, geography and commerce departments.
- A compulsory field work introduced in some departments.
- Semester system of examination was introduced at PG level since 2005
- Provision for revaluation exists for UG classes and provision for re-totalling of marks at PG & UG level is there. Revaluation is abolished since 2012 in PG classes as per the notification of affiliating University.
- ATKT system is adopted at PG level in semester system as per UGC norms.
- Semester system is proposed to be introduced at UG level.
- Preparation of Question Bank is in progress.

- (a) Whether the committee is satisfied with the present mode of the examination being conducted by the college? Any specific method of evaluation which the committee would like to suggest to them may be indicated. *Yes - See Point no 03* *Ans*
- (b) Interaction with students/Non-teaching staff, give specific comments in detail for such interaction undertaken. *Yes* *Ans*

IV. Administrative Activities (for review of Autonomous Status College only)

Whether the Governing Body, Academic Council, Board of Studies and Finance Committee meeting are being conducted by the college periodically or not. Specific comments in details with regard to resolutions passed by the above bodies in the recent past may be given.

- a. **Board of studies –**
Meeting of the Boards of studies of the departments is held every year in the beginning of the session since the autonomous scheme has been introduced.
- b. **Governing Board –** On 14.07.2009, 27.08.2010 and 05.11.2011. Meetings have not been convened there after since the members of GB have not been nominated by the affiliating university.

Ans

Ch. S.

M. S.

M. Massey
Satish Kumar



पं. रविशंकर शुक्ल विश्वविद्यालय रायपुर, (छ.ग.)

फ़ोन- 0771-2262602 (अकादमिक) 0771-2262540 (कुलसचिव) फ़ैक्स-0771-2262618, 2262607

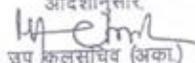
क्रमांक : 2150 / अका. / सम्ब.वृद्धि / 2016

रायपुर, दिनांक : 30/08/2016

॥ आदेश ॥

विश्वविद्यालय विद्या परिषद् की स्थायी समिति की बैठक, दिनांक 27.07.2016 में की गई अनुशंसा को कार्यपरिषद् की बैठक दिनांक 30.07.2016 में अनुमोदन प्रदान किया गया है, तदनुसार निम्नलिखित महाविद्यालय को दर्शित कक्षा/विषय के साथ शुल्क जमा करने के पर्यायतः विश्वविद्यालय परिनियम 27 एवं 28 की शर्तों के अधीन सम्बद्धता सत्र 2015-16 के लिए बढ़ाई जाती है।

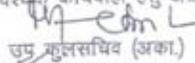
क्र.	महाविद्यालय का नाम	कक्षा/विषय
1	शासकीय दिशनाथ यादव तामस्कर स्नातकोत्तर स्वशासी महाविद्यालय, दुर्ग, जिला- दुर्ग (छ.ग.) pprinci2010@gmail.com, Phone No.- 0788 2211688 Mobile No.- 9036630820	Permanent Affiliation. B.A. - Hindi, English, Sanskrit, History, Econo., Political Sc., Geography. B.Sc. - Physics, Chem., Math's, Botany, Zoology. M.A. - Hindi, English, Economics, Political Sc., Geography. M.Sc. - Physics, Chemi. Math's, Botany, Zoology. Non-Permanent Affiliation. B.A. - Sociology, Anthro. B.Sc. - Geology, Anthro., Micro Biology, Ind. Chemistry B.Com. - All Comput. Papers & Office-Manag. & Secret. Sys. (Addl. Papers) Add. Sub. Comp. Appli.(80) B.Sc. - Computer Sc. (80) Electronics (50 Seat) B.Sc.I - Biotechnology (40) B.Sc.II, Biochemistry (15) B.Sc. - Biochemistry (40) Diploma in English (25) Add-On Course Agro Services-40 Add-On Course -Diploma in Medical Biotechnology- B.C.A.-I,II,III(12-13)-40 B.A. -I,II,III-Add.Sub.-Psycho.-50 B.Lib. & Inf.Sc. (40 Seat) (2012-13) M.A. - History, Sociology. M.Sc. - Geology M.Com. PG Dip. in Clinical Patha. & Diagnostic Technology M.Sc. - Microbio.(20) Biotechnology (20) PGDCA-99 Seats M.Lib. Inf.Sc. (15 seat) (13-14)

आदेशानुसार

 उप कुलसचिव (अका.)

पू. क्रमांक : 2151 / अका. / सम्ब.वृद्धि / 2016
 प्रतिलिपि :-

रायपुर, दिनांक : 30/08/2016

1. आयुक्त, उच्च शिक्षा संयालनालय, ब्लाक-सी, 30, द्वितीय तल, इंद्रावती भवन, नया रायपुर।
2. सम्बन्धित महाविद्यालय के प्राध्याप को,
3. सहायक कुलसचिव (परीक्षा) / उप कुलसचिव गोपनीय, नामांकन विभाग,
4. कुलपति के सचिव / कुलसचिव के निजी सहायक,
 पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनाार्थ एवं आवश्यक कार्यवाही हेतु अर्पित।


 उप कुलसचिव (अका.)

Dr. Prakash Chandra Mishra 2016-18 Page 1/1

Principal
 Govt. V.Y.T.P.G. Autonomous College
 Durg (C.G.)


UNIVERSITY GRANTS COMMISSION - CENTRAL REGIONAL OFFICE,

 Tawa Complex (Bittan Market), E-5, ARERA COLONY, BHOPAL-462 016
 Ph. : 0755 - 2467418, 2467892, Fax. : 0755 - 2467893, web site : www.ugc.ac.in

F.No.GD/202008/XII/12-13/CRO

Date:

To

 The Account Officer,
 UGC, Central Regional Office
 Tawa Complex, Bittan Market,
 E-5, Arera Colony, Bhopal (M.P.)-462016

Subj: Release of 15% "Adhoc on account grant" under the scheme of Plan Block Grant-in-aid during XII Plan period.

Sir/Madam,

As per the decision taken in the Commission meeting held on 19th July 2012, 25% of allocation of XI Plan College Development Assistance was released as "on account grant" for XII Plan period. Now the Commission has decided in the commission meeting held on 30th December 2013 to release up to 40% of GDA + merged schemes allocated to the individual colleges during XIth Plan period, including 25% of grant already released earlier to Govt. V.Y.T. P.G. Auto. College, Durg- 491002(C.G.) the colleges during XII Plan. Accordingly, I am directed to convey the sanction of the Commission for payment of Rs.8700000 to Govt. V.Y.T. P.G. Auto. College, Durg-491002(C.G.) the for the XII Plan period as detailed below:

XII th Plan Allocation	Amount already released during 2012-13	Amount to be released during 2013-14	Remarks
8700000	500000	2980000	

- The Sanctioned grant may be treated as "Adhoc on account" grant for XII Plan. The allocation made now is Provisional Allocation and the final Allocation would be made on finalization of XII Plan Guidelines. The grants sanctioned now would be adjusted against the XII Plan allocation to be made subsequently on the basis of assessment.
- XIIth Plan may be treated as equivalent to GDA+ merged schemes of XIth Plan period. Ratio of allocation under budget heads 38 & 31 (Non-recurring & Recurring) may remain 80:20 as in UGC's guidelines. There should not be any re-appropriation from budget head 38 to 31 or vice versa. The release for SC/ST may be made as per the allocation of 15% and 7.5% respectively.
- The amount of the grant shall be drawn by the Account Officer CRO, UGC, Bhopal (Drawing and Disbursing Officer), University Grants Commission on the Grants-in-aid bill and shall be disbursed to and credited to the Principal, Govt. V.Y.T. P.G. Auto. College, Durg- 491002(C.G.) by him/her through RTGS/NEFT.
- The Grant is subject to the Adjustment on the basis of Utilization Certificate in the prescribed Form submitted by the College.
- The University/College shall maintain proper accounts of the expenditure out the Grants, which shall be utilized, only on approved items of expenditure and ensure proper labeling of the items purchased.
- The Utilization Certificate to the effect that the Grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University grants Commission as early as possible after the close of the current financial year. Balance grant will be released only on receipt of audited UC and Statement of Expenditure etc., signed by Chartered Accountant.
- The assets acquired wholly or substantially out of University Grants Commission's Grant shall not be disposed or encumbered or Utilized for the purpose other than those for which the Grant was give, without proper sanction of the University Grants Commission and should at any time the college ceased to function, such assets shall revert to the University Grants Commission.
- The University/College/Institute shall maintain a Register of Assets acquired wholly or substantially out of the Grants in the prescribed form.
- The grantee institution shall ensure the Utilization of Grants-in-aid for which it is being sanction/paid. In case of non-utilization/part utilization, or mis-utilization of grants sanctioned by the Commission for the purpose for which these were approved and in accordance with the terms and conditions of the approval or does not furnish the required documents or is disaffiliated from the University the entire amount paid by the

 Jk UKC
 CRO/ST

 AL
 02/12/14

Commission shall be refunded by the College with simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Government of India will be charged.

12. The grant should not be used for Self-Financing/Unaided Courses.
13. It may be noted that the accounts of the grant-in-aid institution shall be subject to inspection by officers of the CRO, UOC, Bhopal
14. The interest earned by the University/College/Institute on this grants in aid shall be treated as additional grant and may be shown in the U.C./Statement of expenditure to be furnished by grantee institution.
15. The University/College/Institute shall follow strictly all the instructions issued by the Government of India from time to time with regard to reservation of posts for scheduled Castes/Scheduled Tribes/OBC/P11/eto.,
16. The University/College shall fully implement the official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (use for Official purposes of the Union) Rules, 1978 etc.
17. The sanction issues in exercise of the delegation of powers vide commission office order no. 25/92 dated May 01, 1992.
18. The funds to the extent are available under the Scheme.

Yours faithfully,

 (Dr G.S. Chakrabarti)
 Deputy Secretary

Copy forwarded for information and necessary action to:

1. The Principal
Govt. V.Y.T. P.G. Auto. College, Durg-491002(C.G.)
2. The Commissioner, Higher Education
Govt. of Chhattisgarh,

BCR OF 2013-2014

The sanctioned grant of Rs.2980000. (In words of Rs. Twenty Nine Lakh Eighty Thousand Only) has been transferred to your college Account No. 10563785765 at Bank with IFSC Code SBIN0000370 through RTGS/NEFT by Canara Bank, Arera Colony, Bhopal/UBI, St. Joseph Branch Bhopal. You are requested to confirm the receipt of the above amount in your account by sending back the given stamped receipt within 7 days.


 (Prashant Dwivedi)
 Education Officer

Receipt

Received Rs. from University Grants Commission, Central Regional Office, Bhopal towards "Adhoc of Account Grant" under the scheme of Plan Block Grant in aid for XIIth Plan period

Date.....

The Principal
Govt. V.Y.T. P.G. Auto. College, Durg-
491002(C.G.)

5b
 डॉ. के. पी. सिंह
 संयुक्त सचिव

Dr. K. P. Singh
 Joint Secretary

DO No 24-52014/NS/PE;

Dear Sir,

This has reference to the Interface Meeting held on 03.03.2014 with the Expert Committee on 'Colleges with Potential for Excellence' (CPE) to review the progress/ performance of your college during the current phase and to consider the proposal of your college for continuation to the next phase of CPE/CE and finalize the item-wise budget and Action Plan under the Scheme.

I am glad to inform you that on the recommendation of the Expert Committee, UGC has approved the status of 'College with Potential for Excellence' (CPE) to your college for the next phase of five years under the Scheme. The CPE status will be effective from 1st April, 2014 to 31st March, 2018.

Based on the recommendation of the Expert Committee, the following budget has also been approved for your College under the Scheme for a period of 5 years.

Capital Assets – 35 (Non-Recurring)		
Sl. No.	Budget Head	Amount (Rupees in Lakhs)
1	Lab up gradation	20.00
2	Language Lab equipment	10.00
3	Teaching Aids	05.00
4	Library Automation	05.00
5	Computers	10.00
6	Books & Journals	05.00
7	Internet connectivity	05.00
8	Up-gradation of class rooms/seminar halls	10.00
9	Any other activities as per 7 (c) of Action Plan	10.00
Total: (Rupees Eighty Lakhs only)		80.00
Recurring (R) (Grant-in-aid General – 31)		
Sl. No.	Budget Head	Amount (Rupees in Lakhs)
1	Lab consumables	10.00
2	Software's	05.00
3	Internet services	05.00
4	Maintenance of equipments	05.00
5	Enrichment of teachers	07.50
6	Any other activities as per 7 (d & e) of Action Plan	07.50
Total: (Rupees Forty Lakhs only)		40.00

Grand Total = Rs 120.00 lakhs (Rupees One Crore and Twenty Lakhs only)

Contd./

Recd
 24.03.14
 24/3/14

विश्वविद्यालय अनुदान आयोग
 बहादुरशाह जवाहर मार्ग, नई दिल्ली-110 002
 UNIVERSITY GRANTS COMMISSION
 BAHADURSHAH ZAFAR MARG,
 NEW DELHI-110 002
 टेलीफोन : 011-2503 5007
 टेलीफैक्स : 011-2529 6347
 March, 2014

14 MAR 2014

SPEED POST

-2-

94 MAR 2014

A copy of the Report of the Expert Committee is attached for your information and record. The observations and recommendations of the Committee may be kept in view while implementing the Scheme. Also, the Scheme may be implemented as per the Action Plan and in accordance with the provisions laid down in the guidelines for XII Plan which are available on UGC website (www.ugc.ac.in).

As informed during the interaction, the CPE funds should not be used on un-aided/self-financing department(s)/course(s) of your College. A certificate to the effect that the above instruction will be complied with may kindly be sent immediately. It was also observed during the interface meetings that certain colleges are still working as 'Composite College'. In such cases, the CPE funds should be used only for the degree/P.G. programmes and not for the '+2' programme. A certificate to this effect may also be sent to this office that provisions laid down in the guidelines will be strictly followed.

Further, balance 10% grant of the current phase is being released to your college separately subject to the receipt of the statement of expenditure and audited utilization certificate against the grant already released. You are requested to submit the same to UGC at the earliest, if you have not already submitted it.

With kind regards and best wishes.

Yours sincerely,


(K.P. Singh)

Encl. As above

The Principal,
Govt. V.Y.T. P.G. Autonomous College,
Durg (Chhattisgarh)