

RESEARCH

Research is a culture and not just a practice in Govt V.Y.T.P.G. Autonomous College Durg, and it strives to build and spread the same culture not only within the institution but also in the state of Chhattisgarh.

A lead college of the state and identified as a star college with CPE Phase III, this is the largest research center in the state, and more than 95 Ph.D. s and 03 post-doctoral students have benefitted from it. The institution has a combination of highly qualified faculty out of whom 57 are research guides; a rich library with more than 10000 books on various subjects, laboratories equipped with high-end equipment for research, and very supportive lab assistants and attendants. But it is not just research for the sake of research that happens here. It is deeply connected with the community, often deeply rooted in the problems of Chhattisgarh, and the results and findings are expected to bring about real changes in the field. These results are usually published in international journals of repute.

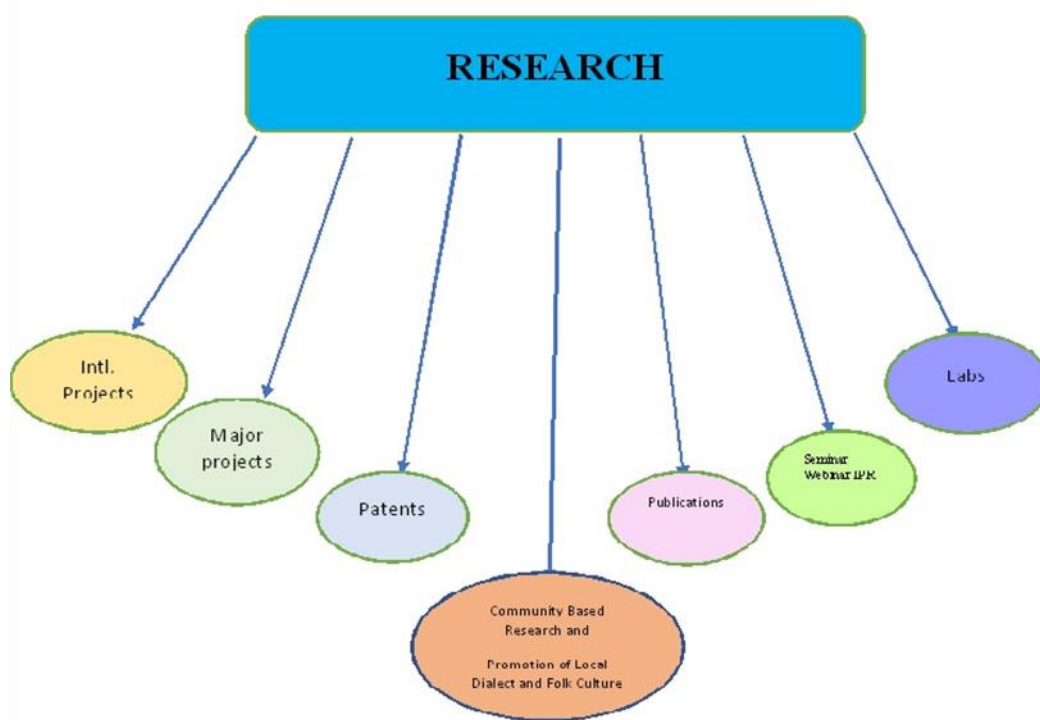
Building the Research Culture :

Keeping in mind the needs of changing times, especially during the period of COVID National and International Webinars and Faculty Development Programmes were organized to update not only the faculty of the college but the fraternity across nations. Seminars/ Webinars are still being organized to keep abreast of the latest trends. 55 MOUs have been signed with various institutions National and International institutions to promote research and student exchanges. The proceeding of webinars and conferences have been archived so that future researchers can access them. In order to further build the research culture within the college, Research grants are disbursed to innovative research topics. The faculty is much cognizant of IPR which has led to the reward of patents and copyrights.

Institutional Highlights:

- The institution is a research center for 16 subjects with nearly 302 scholars currently doing their research
- It has the distinction of having 29 (26 national 3 international) research projects running currently.
- 3 International research projects are currently going on in collaboration with South Korea and Japan and Bulgaria.
- Highly prestigious National Projects sponsored by DAE-BRNS, BARC Mumbai), DST New Delhi
- Nearly 70 research papers are published every year by the faculty and scholars enrolled in this college
- 31 scholars have Junior Research Fellowship
- Research publications in indexed journals
- Publication: Total number of research papers since 2016 is 347
- Patents: 10 patents and 2 copyrights have been registered so far.
- Research Expression: A journal with an ISSN number promotes young researchers to publish their papers in this peer-reviewed journal.
- State of Art Research laboratories and Central Instrumentation lab with single equipment worth more than 5 lakhs.
- The library is fully automated.
- Drillbit and Shodh Shuddhi are used for plagiarism detection.

- Professors are appointed as reviewers of HRD projects like SPARC proposals.
- A number of professors are part of Editorial Boards of National and International Journals of repute.
- The college follows the Code of Ethics in research and has a committee that reviews the proposals received for Ph.Ds and Projects.



International Collaborations for Research:

- Dr. Anil Shrivastava: 02
- Dr Ajay Singh: 01

Seminars/Webinars/FDPs are organized by almost every department to create an ecosystem for research:

- Souvenirs
- Projects supported by External agencies: 06
- MOUs / Collaborations: 55

Interdisciplinary Research: Most Science departments like Biotechnology, Microbiology, Chemistry, Botany, Zoology, English, and Physics are involved in interdisciplinary research.

Community-Oriented Research:

All the departments of the college have focused their research activities towards understanding current problems and development of society, especially around the issues of Chhattisgarh. The thrust areas of the Ph.D. programs conducted by many of the departments have community orientations. Departments of Political Science, History, English and Biotechnology and Sociology, Botany, Zoology, have taken the lead in this area.

The department of Political Science has carried out research on tribal issues and completed a UGC-sponsored project on Naxalism. Currently, a major research project on " A genetic Study of Kidney Epidemic among Population of Supebeda Village of Chhattisgarh" is being carried out by the Department of Biotechnology. The department of Biotechnology also has research projects on topics like: 'Cosmetic and Nutritional Importance of Native plants of Chhattisgarh State', and The prevalence of human parvovirus B19 from Sickle Cell Anemia affected population of tribal area of Rajnandgaon district of Chhattisgarh'. The department of History is constantly making efforts to revive the art and culture of Chhattisgarh through various projects. The department of English continues to find new ways of teaching the English language to rural students and publishes research papers on the pedagogical aspect of learning English. The department of Physics has developed UV-B LED Phosphor useful for the treatment of skin diseases and for phototherapy to treat jaundice in newly born babies.

The Future of Research:

In the current scenario, research has become an integral part of the academic system. The institution strives to keep a very high standard of research so that the results/information can be used in policies and any future project implications. A large number of seminars, conferences, and workshops are organized to keep pace with the recent changes at the global level and to familiarize and expose students to the latest trends in research.

Project work is now a part of the curricula in Masters's Degree programs. The project work is undertaken in Semester IV along with practical work/ fieldwork/ surveys etc. Research methodology is a part of the curriculum in PG Courses. Interdisciplinary research projects are encouraged and supported.

Postdoctoral Research is encouraged and research fellowship is granted to new research projects leading to entrepreneurial ventures and cost-cutting initiatives. The research guides of the Institution constantly strive for excellence which is visible in the quality of research papers published. What makes Research in this institution unique is that on one hand the research is deeply embedded in the local needs and issues, on the other hand, it has made international collaborations with those very projects placing our institution on the world map in the field of research.