

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Certificate Course in Disaster Management (CDM)



Govt. V.Y.T. PG Autonomous
College, Durg (C.G.)

Chairperson

Subject Expert


Subject Expert

Subject Expert

Subject Expert

Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

INTRODUCTION TO THE PROGRAMME

The natural and man-made disasters often involve a fatal combination of forces of natural and human error. Disasters strike with sudden violence, tearing bodies, destroying lives, families and structures apart. India has a dubious history of being hit by at least one major disaster every year. This alarming regularity calls for some strategies to mitigate the effects of disasters by taking into account disaster preparedness measures and also by emphasising upon systematic post-disaster rehabilitation activities. Thus to be effective, disaster management needs to be implemented as a comprehensive and continuous activity and not as post-disaster specially built mainly as a strategy to individual disaster circumstances and effects. Government V.Y.T. PG Autonomous College can play a crucial role in providing education in the field of disaster management.

The Certificate Programme in Disaster Management (CDM) aims at providing knowledge to the learners in the areas of disaster preparedness, prevention, mitigation, relief, reconstruction and rehabilitation.

Scheme of Certificate in Disaster Management (CDM) Session 2020-2021 will be introduced from this session. The CMD is offered by the Govt. V.Y.T. PG Autonomous College, Durg (C.G.) through the medium of both English and Hindi. The syllabi and scheme of examination are detailed below:

Minimum Duration: 6 Months

Maximum Duration: 2 Years

Eligibility: 10+2 from any recognized secondary education board of any state of India.

Medium: English or Hindi

Maximum Age: 25 years.

| | | | | |
|--|--|---|---|---|
|  Chairperson |  Subject Expert |  Subject Expert |  Subject Expert |  Subject Expert |
|  Senior Professor of Science Faculty |  Departmental member | | |  Alumnus |

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Course objectives

This Certificate Course in Disaster Management is designed to impart domain knowledge, values, capacities and skills to:

1. Demonstrate a critical understanding of key concepts in disaster risk reduction and Humanitarian response.
2. Understand and appreciate the specific contributions of the International/ National/ State Red Cross and Red Crescent Movement to the practice and conceptual understanding of disaster Management and humanitarian response and their significance in the current context.
3. Recognize issues, debates and challenges arising from the nexus between paradigm of Development and disasters.
4. Critically evaluate disaster risk reduction and humanitarian response policy and practice from multiple perspectives.
5. Develop an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations.
6. Critically understand the strengths and weaknesses of disaster management approaches, planning and programming in different countries, particularly their home Country or the countries they work in, and
7. Respond to disaster risk reduction initiatives and disasters in an effective, humane and sustainable manner.

In Certificate in Disaster Management (CDM) shall be two theory papers each of 70 marks and assignments will be of 30 marks, thus total marks in the course will be 250. The student will have to do case study or write a review article or do project work after consulting the faculty of Geology department and it will have a weightage of 50 marks.


Chairperson


Subject Expert


Subject Expert


Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Minor component of the evaluation system

Assignments: -Submission of assignments is compulsory. Assignments of a Course carry 30% weightage. Student will have to submit one assignment for each paper. Students will not be allowed to appear for the final examination for a CMD, if they do not submit the assignment in time. If student do not get a passing marks in any assignments student have to submit it again.

Major component of the evaluation system

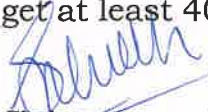
Theory Paper:- Theory paper carries 70% weight age in the final result. In case, student fail to secure a pass score (40% marks) in the final examination, student will be eligible to reappear in the next year final examination for CMD.


EVALUATION


Evaluation consists of two parts: 1) assignments, and 2) final Examination. In the final result, assignment of a CMD carries 30% weightage, While 70% weightage is given to final examination, Following is the scheme of awarding divisions and grades:


| Division | Percentage Range | Grade |
|--------------|------------------|--------------------|
| First | 80 and above | A - Excellent |
| First | 60 to 79.99 | B- Very Good |
| Second | 50 to 59.99 | C - Good |
| Pass | 40 to 49.99 | D - Satisfactory |
| Unsuccessful | Below 40 | E - Unsatisfactory |


Students are required to score at least 40% marks in assignments as well as final examination separately. In the overall computation also, student must get at least 40% marks in each paper to claim the Certificate in CMD.



Chairperson



Subject Expert



Subject Expert


Subject Expert


Subject Expert


Senior Professor of Science Faculty


Departmental member


Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Re-evaluation:-

There is provision for re-evaluation of final exam (theory) answer copies (anyone or two). The students can apply for re-evaluation of final exam (theory) answer copies against payment of Rs.250/- per theory paper.

- 1. There will be no ATKT.**
- 2. Students will get one chance to appear for failed subject.**

EVALUATION PATTERN

| Theory Paper | | |
|--------------|---|----------|
| Paper-I | Foundation course in disaster management | 70 Marks |
| Paper-II | Disaster management: methods and techniques | 70 Marks |

Question Paper Format and Distribution of Marks for CMD Examination.

1. The question paper will be divided into three Sections - A, B & C.
2. Section A shall contain very short answer type questions (answer in one or two sentences) or objective type questions. (No Multiple choice questions, No 'Fill in the blank' type Questions).
3. Section B shall contain short answer type questions with the limit of 150 words.(50% internal choice)
4. Section C shall contain long answer/descriptive type questions. The students are required to answer precisely and the answer should not exceed the limit of 350 words.(50% internal choice)



Chairperson



Subject Expert



Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

5. The scheme of marks should be as follows:

| Question Type | MM 70. (Marks x No of Questions) |
|-----------------------|----------------------------------|
| A (Very Short Answer) | 1 x 10 = 10 |
| B (Short Answer) | 4 x 5 = 20 |
| C (Long Answer) | 8 x 5 = 40 |

Syllabus and Marking Scheme for CMD.


| Paper No. | Title of the Paper | Marks Allotted | |
|-------------------------------------|---|----------------|------------|
| | | Theory | Assignment |
| I | Foundation course in disaster management | 70 | 30 |
| II | Disaster management: methods and techniques | 70 | 30 |
| Total | | 140 | 60 |
| Case Study/ Review Article/ Project | | 50 | |
| Grand Total | | 250 | |



Chairperson



Subject Expert

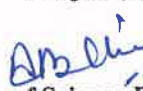


Subject Expert

Subject Expert

Subject Expert

Senior Professor of Science Faculty





Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Syllabus

Scheme of Certificate Course in Disaster Management (CDM)

Session 2024-2025

PAPER- I

Foundation course in disaster management

Max. Marks - 70

UNIT - I Understanding Disasters

Disaster: Meaning, Factors and Significance, Understanding Disasters: Causes and Effects, Disasters: A Global View, Disaster, Profile of India - Regional and Seasonal

UNIT - 2 Typology of Disasters

Earthquake, Flood and Drainage, Cyclone, Drought and Famine, Landslide and Snow Avalanche, Fire and Forest Fire, Industrial and Technological Disaster, Epidemics

UNIT - 3 Essentials of Disaster Preparedness

Planning, Communication, Leadership and Coordination, Warehousing and Stock Piling

UNIT - 4 Disaster Management and Awareness

Human Behaviour and Response: Individual Community, Institutions, Community Participation and Awareness, Public Awareness Programme, Information Organization and Dissemination

UNIT - 5 Disaster Management:

Role of Various Agencies, District Administration, Military and Para-Military Forces, Ministries and Departments at Centre and State Levels, Non-Governmental Agencies, International Agencies, Media,



Chairperson


Subject Expert


Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

References:

1. Carter, W.Nick, 1991. Disaster Management: Disaster Management's Handbook, Asian Development Bank, Manila.
2. Mishra, Girish K, and G.C. Mathur (Eds.), 1993. Natural Disaster Reduction Reliance Publishing House, New Delhi.
3. Prakash, Indu, 1994. Disaster Management, Rastra Prahari Prakashan, Ghaziabad.
4. Thomas, Babu 1993. Disaster Response: A Handbook for Emergencies. Church's Auxiliary for Social Action, New Dehli.
5. Turner, Barry A and Nick, F. Pidgeon 1997. Man Made Disaster, Butterworth Heinemann: Oxford.
6. Green, Stephen, 1980. International Disaster Relief: Towards A Responsive System; McGraw Hill Book Company, New York.
7. Ross, Simon, 1987. Hazard Geography; Longmans, U.K.
8. Ashutosh Gauutam, 1994, Earthquake - A Natural Disaster; Ashish Publishing House, New Delhi.
9. Ashutosh Gauutam, 1994, Earthquake - A Natural Disaster; Ashish Publishing House, New Delhi.
10. Vladimir Schenk (Ed.), 1996. Earthquake Hazard and Risk; Kluwer Academic Publishers, London.
11. Government of India, 1997, Vulnerability Atlas of India
12. Sharma, Vinod K., 1995. Disaster Management: Indian Institute of Public Administration; New Delhi.
13. Report of the National Commission on Floods, 1980, Ministry of Irrigation and Power, New Delhi,
14. Anthes. R. A, (1982): "Tropical Cyclones, their evolution, structure and effect' American Met. Soc. Met. Monograph, Vol. 19.41.
15. Government of India (1997): Vulnerability Atlas of India


Chairperson


Subject Expert


Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

16. Mandal, G. S. (1995) Natural Disasters, in "Disaster Management (V.K.Shanna, Ed.), IIPA, New Delhi
17. Mandal, G. S. (1993): "Natural Disaster Reduction". Reliance Publishing House, New Delhi.
18. Pisharoty, P. R., 1993, Tropical Cyclone, Bharatiya Vidya Bhawan, Mumbai.
19. Webster's, Third New International Dictionary (1971)
20. Encyclopedia Britannica - Micropaedia (1985)
21. Indu Prakasli, 1994. Disaster Management, Rashtra Prahari Prakashan Ghaziabad.
22. D.S. Upadhyay, 1995. Cold Climate Hydro metrology, New Age International(P) Ltd., New Delhi, Mumbai, Calcutta, Chennai.
23. Text Book of Preventive 62- Social Medicine, K. Park, M/S. Banarsidas Bhanot, Jabalpur.
24. Epidemiology: Principles & Methods, Macmohan B. and T.F. Pugh, Little Brown. Boston.
25. An Introduction to Epidemiology, Anderson M. Macmillan, London.
26. Manual of Epidemiology for District Health Management, WHO, Geneva.


Chairperson


Subject Expert


Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

Scheme of Certificate Course in Disaster Management (CDM)

Session 2024-2025

PAPER- II

Disaster management: methods and techniques

Max. Marks - 70

UNIT - 1 Increased Understanding of Disasters

Earthquake, Flood and Drainage, Cyclone, Drought and
Famine, Landslides and Snow Avalanche, Fire and Forest Fire,
Industrial and Technological Disasters, Epidemics

UNIT - 2 Preparedness and Mitigation

Disaster Mapping, Predictability, Forecasting and Warning,
Disaster Preparedness Plan, Land-use zoning for Disaster,
Management, Preparing Community Through IEC, Disaster
Mitigation

UNIT - 3 Relief Measures

Search, Rescue and Evacuation, Shelter for Victims, Livestock
and Relief Measures, Clearance of Debris and Disposal of the
Dead, Control of Fire, Damage Assessment

UNIT - 4 Community Health and Casualty Management

Community Health during Disasters, Emergency Health,
Operations, Drinking Water, Food and Nutrition, Hygiene and
Sanitation

UNIT - 5 Reconstruction and Rehabilitation and Skill Assessment

Rehabilitation: Social and Economic Aspects, Reconstruction
and Rehabilitation as Means of Development, Agriculture and
Irrigation.


Chairperson


Subject Expert


Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

References:

01. Carter, W.Nick, 1991. Disaster Management: Disaster Management's Handbook, Asian Development Bank, Manila.

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

02. Vardaman, George T. and C. Carroll, managerial Control Through Communication, New York Communications, New York, Wiley, 1968
03. Berlo, David K., the Process of Communication, New York, Holt. 1960.
04. Sharma, \V.K. (ed): (1995) Disaster Management, Indian Institute of Public Administration, New Delhi.
05. Misra. G.k.. and Mathur G.C. (1993) Nature? Disaster Reduction, Reliance Public House, New Delhi.
06. Reed, Sheila B. (1992) Introduction to Hazards, DMPT Manual (UNDRO Publication).
07. Carter, W.NiOk [I 991) Disaster Management-A Disaster Manager 19 Handbook, Asian Development Bank, Manila.
08. Govt. of India's Report, "The drought of 1987, Response and management" Department of Agriculture 62 Cooperation, Ministry of Agriculture, Government of India, New Delhi.
09. Health Sector Contingency Plan for management of crisis situation in India Emergency Medical Relief, Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India, New Delhi.
9. Cyclone Contingency Plan of Action; Revenue Department, Government of Andhra pradesh, Hyderabad.
10. Bawa. D.S. " New strategy, for Industrial Development of Flood and Drought Prone Areas", New Delhi, 1980.
12. CWC. "Flood Atlas of India", 1987.


Chairperson


Subject Expert


Subject Expert

Subject Expert

Subject Expert


Senior Professor of Science Faculty


Departmental member

Alumnus

DEPARTMENT OF GEOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG (C.G.)
2024 – 2025

13. Palm, Risa .J. "Natural Hazards: An Integrative Frame work for research and Planning", Hopking University Press, 1990.
14. "Vulnerability Atlas of India", Government of India, 1997.
15. Agrawal, S. and N.B. Srivastava (Translators), 1986, Prakritik Prakop (in Hindi), Joint Assistance Centre, Gurgaon.
16. Deshpande, B.G., 1987, Earthquakes, Animals and Man, Maharashtra Association for the Cultivation of Sciences, Pune.
17. Indu Prakash, 1994, Disaster Management, Rashtra Prahari Prakashan Sahibabad, Ghaziabad, (U.P.)
18. Jain, N.K. (Guest Ed.), 1995, Moving Technology, Vol. 10 No. 1, Council for Advancement of People's Action and Rural Technology (CAPART), New Delhi.



Chairperson



Subject Expert



Subject Expert

Subject Expert

Subject Expert

Senior Professor of Science Faculty



Departmental member



Alumnus