

2nd POST GRADUATE DIPLOMA IN DISASTER MANAGEMENT (PGDDM)

1. The Organization:

DMI is an advisory organization to the State Government established in the year of 1987 in the backdrop of the Bhopal Gas Tragedy of the year 1984. One of the important mandates of DMI is to create Disaster awareness and to educate Government officials, personnel of public and Private sector industries, NGOs, community, etc. about the importance of preventive measures and preparedness, promote research oriented studies, conduct appropriate training programmes. In the last three decades, DMI has worked in almost all the sphere of disasters and has gained enormous institutional experience. The Institute has also been associated with the various prestigious national and international projects. Various other short-term training and awareness programs with varied target groups & in collaboration are also been conducted by DMI.

The Course Post Graduate Diploma in Disaster Management (PGDDM) has been launched by Disaster Management Institute, with a view to educate people of diverse sections about various aspects of disaster (both natural & man-made), its related problems and the effective management of disasters and for matters connected therewith or incidental thereto. PGDDM course is of immense use to students, citizens at every stage and at all levels of formal (technical) and non-formal professionals.

DMI is an advisory organization to the State Government established in the year of 1987 in the backdrop of the Bhopal Gas Tragedy of the year 1984. It conducts training, consultancy and certification of various projects for different sectors in the field of Disaster Management.

This course is an initiative of **Chair** formed under Madhya

Pradesh State Planning Commission on disaster management.

Opportunity to:

- Be a part of various projects and plan preparation undertaken by DMI
- Visit mock drills
- Be a part of Audit and certification team.
- Review various reports, plans etc. available with DMI.
- Interact with multi-disciplinary experts and know various aspects of Disaster Management.

2. Linkages with Industry and Prospective Employers:

Since Institute is an academic institute therefore, to run a diploma or post graduate diploma course is one the objectives of the institute and therefore institute is launching a post graduate diploma in disaster management (PGDDM). This course is sponsored by DMI (Govt. of MP) as a part of its mandate of developing trained manpower in the field of Disaster mitigation and management for overall capacity development.

3. Advantage of the course:

Disaster Management is an interdisciplinary subject and thus there is a need of awareness of this stream in every section of society including educational, industrial, agricultural, defence services, Government organisations, NGO's, Media as well as judiciary. The course will enrich the students with thorough knowledge and understanding of all aspects of Disaster and its management. It inculcates topics such as types of Disasters (Natural /Man-made), its

control & mitigation, Disaster Management laws and Acts, effects of Disasters on nature, climate change and living creatures etc. The course will facilitate development of Disaster preparedness, Mitigation & Management, leadership among individuals who will be able to contribute in generating awareness and up-gradation programs for sustainable development. This course has been developed by a team of Academicians, Disaster Management Authorities and experts of reputed Government and autonomous agencies so as to impart applied knowledge.

4. Objective of the Course:-

- To understand the basic issues of disaster management like, prevention, planning, preparedness, mitigation, response, rescue, rehabilitation, recovery etc.
- To enhance the understanding on disaster issues
- To enhance knowledge and skills on Disaster Management and environmental interventions
- To develop capacity of planners, researchers, administrators, consultants, academicians etc. for integration of disaster management from the inception of the project
- To give awareness of various guidelines developed by NDMA, Govt of India.
- To develop skills in the area of hazards, vulnerability and risk assessment, consequence assessment, safety audits, environmental audits.
- To develop capacity in making on-site and off-site emergency management plans.
- To develop capacity for understanding the need of various plans and policies required by Central Ministries and State Departments under various sections of Disaster Management Act, 2005.
- To educate various target groups on different aspects of safety, risk and disaster management related Indian standards (BIS) and regulations.
- Develop Disaster aware and technically enlightened citizen.
- Disseminate Disaster information on cross cutting issues.

With the completion of course, one would be able to

- Understand Disaster Management Continuum
- Understand Various Disaster Issues
- Understand various regulations, acts and agencies related to Disaster Management.
- Formulate plans and conduct HVRA at various levels.

5. Duration of the Course: 01 Year

6. Eligibility for Admission:

Candidates having Graduation with minimum 50% marks for general category and 40% for Reserved Category including physically handicapped candidates.

7. Total Number of Seats: 30.

8. Target Group:

Students/Employees of Government/Semi Government/Private Sectors/Industries / NGOs /Consultants/ journalists etc.

9. Age Limit:

Candidates should have a minimum age of 20 years.

10. Selection Procedure for Admission:

Candidates for PGDDM course will be selected on the basis of merit list. Merit list will be prepared on following basis:-

S.No.	Marks	Calculation Pattern/Criteria
(a)	80	<p>On the basis of marks obtained in graduation</p> <ul style="list-style-type: none">• Candidate having graduation in any discipline with minimum 50% marks for general category and 40% for Reserve Category or equivalent CGPA.• Candidate with 50% marks (in general) and 40%-50% (in reserve category) will get a minimum of 30 marks out of 80 marks.• Candidate having more than 50% marks in graduation will get 1 mark of every 1% as per the calculation given below:-<ul style="list-style-type: none">- 51% to 60% - 31 to 40 Marks- 61% to 70 - 41 to 50 Marks- 71% to 80% - 51 to 60 Marks- 81% to 90% - 61 to 70 Marks- 91% 100% - 71 to 80 Marks <p><i>(Merit list of candidates will be prepared on above criteria and marks will be rounded off to nearest natural number e. g. if a candidate has 61.24, then marks will be considered as 61%, if marks are 61.66 then will be considered as 62%. The marks such as 61.50 will be considered as 61% and 61.51 as 62 % .)</i></p>
(b)	20	<ul style="list-style-type: none">• On the basis of highest qualification/education:-<ul style="list-style-type: none">- Ph.D. – 20- M. Phil. - 15- Post Graduation - 10- Diploma – 5
	100	Merit list will be prepared on the basis of marks obtained. Selection for course will be based on merit list.

Important Dates:

Last Date for submission of application	15 July, 2017 (Up to 5.30 pm)
Merit list declaration *	20 July, 2017
Date of registration	21 -30 July, 2017
Starting of Classes	1 August, 2017

*Merit list shall be published on the website of the institute.

11. Fees:

Course fee will be Rs. 33,000/- + 15% Service Tax per candidate for general candidate and Rs. 27,000/- + 15% Service Tax per candidate for Reserved category including physically handicapped candidates. Apart from that each candidate has to pay Rs. 1000/- as caution fee which will be refundable. Therefore, each candidate of general category has to pay an amount of Rs. 38,950 (33,000+4950+1000) and that of reserved category an amount of Rs. 32,050 (27,000+4050 +1000). Mode of fee submission will be through demand draft only. The fee covers class room teaching, demonstration, library, stationary, field visits, examination fee, working lunch and two time tea will be provided during lecture time. Selected candidates should submit the demand draft in favour of **Disaster Management Institute, Payable at Bhopal.**

12. Accommodation Facilities:

The course is non-residential however; facility of hostel can be made available to the candidate @ Rupees 250 per day per head on twin sharing basis, on first come first serve basis for 20 candidates. Dinner is separate and can be made available on request. Fees for hostel have to be paid at the time of Admission.

13. Infrastructure:

DMI has adequate infrastructure in form of its own building with library, classrooms etc.

14. Contact and address Details

Paryavaran Parisar, E-5, Arera Colony, PB No. 563 Bhopal-462016, MP (India)
Tel:+91-755-2466715, 2461538, 2461348, 293592, Fax: +91-755-2466653, E-mail:dmi@dmibhopal.nic.in

15. Mode of Teaching, delivery and assessment:

- **Classes:** Contact classes will be conducted at Disaster Management Institute (DMI), Bhopal for teaching, practical and field demonstration. Medium of lecture and examination will be English. Classroom teaching will be of 60 days with approximately 300 hours in 2 semesters. Each semester will have 2 contact sessions, each of 15 days (including holidays). Session will commence from 1 August, 2016. The detailed timetable will be displayed on website with announcement of result. During session, classes will start from 10:30 A.M. to 5:00 P.M. A break of 30 minutes will be given from 1:30 P.M. to 2:00 P.M. for lunch.
- **Attendance:** At least 80% attendance for Fresh¹ candidates and 60% for In-service² candidates is compulsory.
- **Project:** A project report has to be submitted by each candidate and project topics shall be decided in class room teaching.
- **Evaluation:** There will be continuous evaluation through assignments, practical and written exams.

1 Fresh candidate means those who are not employed.

2. In-service candidate means those who are serving any government, semi-government, private and non-governmental organization

16. Course Content:

PAPER -I - Guidelines and regulations related to Disaster management

PAPER -II- Organisational Structures of Disaster Management

PAPER -III -Phases of Disaster management

PAPER -IV- Disaster Management Plans

PAPER -V -Certifications and approval

PAPER –VI- Project report

Marking system:

Paper I 100	Paper II 100	Paper III 100	Paper IV 100	Paper V 100	Field Visit (50+50)	Assignment (50+50)	Final Project 200	Synopsis 50	Presentation 50
40 Min	40 Min	40 Min	40 Min	40 Min	20+20 Min	20+20 Min	80 Min	20 Min	20 Min

Academic Calendar

Months	Tasks to be completed
August - September, 2017	Classroom teaching of 30 days with approximately 150 hours in two contacts sessions each of 15 days (including public holidays). Lecture will be of 90 minutes each, with 60 minutes teaching and 30 minutes discussion and doubt clearing session
October, 2017	Submission of assignments and break.
November, 2017	Presentation and exposure. Project topics will be allotted.
December, 2017	1 st semester examination
January- February, 2018	Classroom teaching of 30 days with approximately 150 hours in two contacts sessions each of 15 days (including public holidays). Lecture will be of 90 minutes each, with 60 minutes teaching and 30 minutes discussion and doubt clearing session.
March-April, 2018	Project work / Internship
May, 2018	Presentation on Project work / Internship Report
June, 2018	2 nd semester examination
July, 2018	Result Tabulation and Result declaration & Award of Diploma (Convocation)

Students will have to complete their project work on full-time basis under supervision and guidance of suitable guides.

17. Syllabus of the Course

Paper-I: Guidelines and regulations related to Disaster management

Unit I: Regulatory Frame Work on Disaster Management

- The Environment (Protection) Act, 1986 (amended 1991),The Environment (Protection) Rules, 1986 (amended 2004),The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (amended, 1994 and 2004),The Hazardous Wastes (Management and Handling) Rules, 1989 (amended 2000 and 2003),The Environment Prior Clearance Notification, 2006. The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, Bio-medical Wastes (Management and Handling) Rules. 1989,
- The Factories Act, 1948 (amended 1987) ,State Factory Rules,
- The Inflammable Substances Act, 1952,
- The Motor Vehicles Act, 1988 (amended 2001),The Central Motor Vehicles Rules, 1989 (amended 2005),The Public Liability Insurance Rules, 1991 (amended 1992), The Public Liability Insurance Rules, 1991 (amended 1993),
- The Petroleum Act, 1934, The Petroleum Rules, 2002,
- The Insecticide Rules, 1968 (amended 2000), The Insecticide Rules, 1971 (amended 1999),
- The National Environment Tribunal Act, 1995,
- The Explosives Act, 1884 (amended till 1983),The Gas Cylinder Rules, 2004,The Static and Mobile Pressure Vessels (Unfired) Rules, 1981 (amended 2002),The Explosives Rules, 1983 (amended 2002),
- Disaster Management Act 2005.

Unit II: General terms related to Disaster management

- Hazard and vulnerability: Risk assessment, vulnerability, risk management, risk emergency,
- Understanding Disaster: Meaning, nature, characteristics and types of disaster,
- Disaster: A Global view and profile of India,
- Incident, off site and on site emergency, levels of emergency,
- Disaster Management Cycle: Preparedness, prevention, mitigation, relief response, etc.

Unit III: National Guidelines on various disasters.

- Guidelines for Preparation of Action Plan – Prevention and Management of Heat-Wave,
- Guidelines on Management of School Safety,
- Guidelines on Management of Hospital Safety,
- Guidelines on Minimum Standards for Shelter, Food, Water, Sanitation, Medical Cover in Relief Camps,
- Guidelines on Management of Earthquakes,
- Guidelines on Management of Tsunamis,
- Guidelines on Management of Cyclones,
- Guidelines on Management of Flood,
- Guidelines on Management of Urban Flooding,
- Guidelines On Drought Management,
- Guidelines On Landslide and snow avalanches,
- Guidelines for Nuclear and Radiological Emergencies,
- Guidelines on Chemical Disaster (Industrial),
- Guidelines for Chemical(Terrorism) Disaster),

- Guidelines on Medical Preparedness and Mass Casualty Management,
- Guidelines for Biological Disaster,
- Guidelines for Psycho-Social Support,
- Guidelines on Formulation of State DM Plans,
- Guidelines for National Disaster Management Information and Communication System,
- Guidelines for Scaling, Type of Equipment and Training of Fire Services,
- Guidelines for Seismic Retrofitting of Deficient Buildings and Structures.

Paper-II: Organisational Structures of Disaster Management

Unit I: International Organizations for Disaster Management

- UN, UNOCHA, UNISDR, UNISER, UNDP, WHO, FAO, IFRC, SAARC, ASEAN, UNFCC, FEMA , ADPC, OECD, etc.

Unit II: National Organisations for Disaster Management

About NDMA:

- Evolution of NDMA, vision,
- Functions and responsibility,
- Organisational structure,
- Powers and functions of national authority,
- Policies and plans,
- Constitution of advisory committee,
- National executive committee,
- Operation etc.

Unit III: State Organisation

About SDMA:

- Establishment of SDMA,
- Functions and responsibility,
- Organisational structure,
- Powers and functions of national authority,
- Policies and plans
- Constitution of advisory committee
- State executive committee,
- Operation etc.

Paper III: Phases of Disaster management

Unit I: Disaster preparedness

- Disaster Management: Prevention, Preparedness, and Mitigation
- Disaster Preparedness: Concept and Nature
- Community Based Disaster Preparedness Plan
- Training, capacity buildings and mock drills for disaster preparedness and mitigation.
- Structural and non-structural mitigation
- Disaster risk reduction
- India disaster resource network

- Institutions contributing in disaster management like DMI, NIDM, IITs and NITs, GIDM, TISS, National Civil Defence College, National Fire College etc.

Unit II: Disaster Response

- Response and relief mechanism,
- Search and Rescue,
- Supply chain and logistics in emergency response system,
- Minimum standards of relief and spheres standards,
- Guidelines on Incident Response System,
- Damage and need assessment,
- NDRF and SDRF,
- EOC set up and management etc.

Unit III: Rehabilitation, reconstruction and recovery

- Reconstruction and rehabilitation as means of development,
- Post disaster need assessment,
- Recovery and reconstruction: Introduction, medium term and long term recovery aspects, community participation in defining objectives and their priorities,
- Rehabilitation: Physical and social infrastructure: Relocation and reconstruction of housing, public buildings, roads, bridges, dams, archives and monuments, services such as water supply, electricity, waste management, communication, capacity building for self-help construction,
- Role of various agencies in disaster management and development,
- Development and economic infrastructure,
- Creation of livelihood options,
- Funding arrangements for reconstruction,
- Disaster resistant house construction,
- Repair and retrofitting: Superficial repair, structural repair, structural strengthening of habitable spaces, public buildings, roads, bridges, dams, culverts etc.
- Philosophy of coping with disaster, dealing with victim's psychology, etc.

Unit IV: Technologies for Disaster Management

- Role of IT in disaster preparedness,
- Remote sensing, GIS, GPS, use and application of emerging technology,
- Application of modern technology for emergency communication like HAM radios and satellite phone,
- Application and use of ICT for different disasters,
- Early warning system
- Software used for consequence assessment example ALOHA, SAFETI etc.

Paper IV: Disaster Management Plans

Unit I: National and State Disaster Management Plan

- Hazard, Risk, Vulnerability and Capacity Assessment (HRVCA),
- Institutional arrangement for disaster management,
- Prevention and mitigation measures,
- Mainstreaming Disaster Risk Reduction (DRR),

- Preparedness measures,
- Role and responsibilities of central and state administration, armed forces, police, para-military forces,
- Financial resources,
- Post disaster measures, etc.

Unit II: Central Ministries and State Departments Plans.

- Plans of all Ministries and departments like Ministry of Home Affairs, Ministry of Environment & Forests and Climate Change etc., and departments like IMD, GSI etc.

Unit III: District Disaster Management Plans

- DDMA,
- Institutional arrangement at district levels,
- DM organisational structure at district level,
- Emergency services in districts,
- Forecasting and warning agencies,
- Community preparedness,
- Capacity building,
- Financial resources etc.

Unit IV: Plan for Local Bodies

- Functions of local authority,
- Disaster management plan for cantonment, city, municipalities, municipal corporations,
- Role and responsibility of local administration etc.

Paper V: Certifications and approval

Unit I: Certification

- ERDMP regulations 2010,
- Safety audits as per BIS 14489(1998),
- HIRA 2006 etc.

Unit II: ISO

- ISO 9001,
- ISO 14001,
- ISO 18001 OSHAS,
- ISO 22301
- ISO 17020 etc.

Unit III Mock drills and consultation in library

Paper VI: Project report

Students are supposed to make a project report based on field work or on the basis of analysis on past disaster

OR

Institute is engaged in various types of consultancies and certification process. Limited opportunities shall be provided to the students to work on these project on the basis of merit list.