

**PANJAB UNIVERSITY, CHANDIGARH**  
(Estd. under the Panjab University Act VII of 1947- enacted by the Govt. of India)

**FACULTY OF ARTS**

**SYLLABI**

**FOR**

**POSTGRADUATE DIPLOMA  
IN  
DISASTER MANAGEMENT AND SECURITY  
(SEMESTER SYSTEM)  
EXAMINATIONS, 2023-24**

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**PAN AB N ER Y C AND GAR**

Outlines of tests, syllabi and courses of reading for Postgraduate Diploma in Disaster Management and Security (Semester System) for the examinations of 2023-24

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**P per Dis ster M n ge ent Concept Fr e or**

M. Marks : 100  
Theory : 80 marks  
Int. Ass. : 20 marks  
Time : 3 hours

**O ectr e:** - The course will provide general insight to understanding disaster management and approaches including appraising on disaster diplomacy

**Note:** There shall be 9 questions in all. The first question is compulsory containing 15 short answer type questions spread over the whole syllabus to be answered in about 25 to 30 words each. The candidates are required to attempt any 10 short answer type questions carrying 20 marks of 2 marks each. Rest of the paper contain 4 units. Each unit shall have two questions and the candidates shall be given a choice of attempting one question from each unit – 4 in all. Each question will carry 15 marks.

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1. Disaster Management: Concept & Significance
2. Approaches to Disaster Management: Rationale, Elements and Objectives of Disaster Management

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3. Dimensions and Typology of Disasters:
  - (a) Natural disasters – include Broad outlines Regarding Natural and Non-Natural Disasters such as; Earthquake, Volcanic Eruptions, Floods, Landslides, Avalanches, Tsunamis, Cyclone, Climatic Change, Drought and Epidemics
  - (b) Manmade Disasters – include War, Industrial Accidents, Soil Degradation, Desertification, Deforestation, Depletion of Water Resources, Destruction of

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4. National Disaster Management Policy – Significance, Principles and Policy options

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5. Disaster Management in Developed and Developing Nations
6. Disaster Diplomacy Through Disaster Related Factors

**Books Recommended**

1. Bourriau, Janine; **Understanding Catastrophe** Cambridge University Press, Cambridge, 1992.
2. Carter, W. Nick; **Disaster Management: A Disaster Manager's Handbook** A.D.B., Manila, Philippines, 1991.
3. Coppola, P. Damon, **Introduction to International Disaster Management** Elsevier, Oxford, 2006.
4. Garlake, Teresa, **Disaster Management: A Handbook for Disaster Preparedness**

11. Pandey, Rajendra, K., Disaster Management in India: Policies, Institutions, Practices, Taylor & Francis, 2023.

12. [Prizzia](#)



**Boo s Reco ended**

**P per Project Report sed on Fie d t dy ir oce E in tion**

M. Marks : 100



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**P per Dis ster M n ge ent tr ct re Coordin tion Response**

M. Marks	: 100
Theory	: 80 marks
Int. Ass.	: 20 marks
Time	: 3 hours

**O ectr e:** - The course will dwell on the standard operating procedures and contingency planning related to disaster management.

**NO E** There shall be 9 questions in all. The first question is compulsory containing 15 short answer type questions spread over the whole syllabus to be answered in about 25 to 30 words each. The candidates are required to attempt any 10 short answer type question carrying 20 marks of 2 marks each. Rest of the paper contains 4 units. Each unit shall have two questions and the candidates shall be given a choice of attempting one question from each unit – 4 in all. Each question will carry 15 marks.

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1. Planning and Designing Disaster Management Strategies, Policies, Schemes, Standard Operating Procedure for Enhancing Preparedness and Capabilities at National and Regional level at the time of Disaster/War like Situation.

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2. Allocation and management of resources:
  - a. Financial Aid/ Resources
  - b. Medical Resources
  - c. Electrical, Mechanical and Engineering Resources
  - d. Communication Resources( Including its Integration with Command and Control Mechanism)
  - e. Transportation Resources
  - f. Food and Essential Commodity Resources
  - g. Human Resources
  - h. Infrastructure Restoration and Build Up

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3. Disaster Management training – Policies, Emergency Management Teams, Managing Media and the Role of Information Technology
4. Capacity Building and Role of Leadership in Disaster Management

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5. Case Studies(Examples from Recent Disasters in India)

**Books Recommended**

1. Delmar, **Fire Fighters and more** Stanford Thomson Learning (U.S.A.), 2000.
2. Government of India, The Department of Atomic Energy **An Overview of the Emergency Response Plans [d e g o r i n](#)**
3. Kirschenbaun, Alan, **Chaos Organization and Disaster Management** Marcel Dekker, 2004.
4. Krajewski & Ritzman, **Operation Management Strategy Analysis**, Prentice Hall, New Delhi, 2001.
5. Levitt, Alan M; **Disaster Planning and Recovery** John Valley and Sons, New York, 1997.
6. Ministry of Agriculture and Cooperation, Government of India: **Nation Disaster Response Plan** New Delhi: 2002.
7. Ministry of Agriculture and Cooperation, Government of India: **Report of the High Powered Committee on Disaster Management** New Delhi: 2001.
8. Misra, Girish K. and Mathur, G.C. (Ed.); **Natural Disaster Reduction** Reliance Publishing House, New Delhi, 1995.
9. **Nation Disaster Response Plan**, NCDM, New Delhi, 2001.

13. Parasuram, S. and Unnikrishnan, P.V. (Ed.), **Andi Disasters Report** **o rds**  
**po icy initi ti e** Oxford University Press, New Delhi, 2000.
14. Rao R Ramesh, Jon Eisenberg & Ted Schmitt, **pro ing Dis ster M n ge ent**  
**he Ro e of in itig tion prep redness response nd recory,** National  
Academy of Science, Washington, 2001.
15. S.N. Charry, **Prod ction Oper tion M n ge ent** Tata McGraw Hill, New York,  
2005.
16. Schneid Thomas D. and Collins Larry **Dis ster M n ge ent nd Prep redness**  
Lewis Publishers, New York, 2001.
17. Schnneider, Sandra, K. **F irting ith Dis ster P ic M n ge ent in Crisis**  
**it tions** M.E. Sharpe, Armonk, New York, 1995.
18. **NDRO M n ging N t r Dis sters** – A Manual for Policy Makers and Planners,  
New York, 1991.

**Paper War and Disaster Management**

M. Marks : 100  
Theory : 80 marks  
Int. Ass. : 20 marks  
Time : 3 hours

**Objective** -The paper will address various aspects of war and non-war situation causing disasters including the role of security forces.

**NOTE** There shall be 9 questions in all. The first question is compulsory containing 15 short answer type questions spread over the whole syllabus to be answered in about 25 to 30 words each. The candidates are required to attempt any 10 short answer type question carrying 20 marks of 2 marks each. Rest of the paper contain 4 units. Each unit shall have two questions and the candidates shall be given a choice of attempting one question from each unit – 4 in all. Each question will carry 15 marks.

**Unit**

1. War as Disaster – Socio-Economic, Political, Military, Health and Environmental Effects
2. Lethal Aspects of Conventional Wars Causing Disaster Like Situations

**Unit**

3. Fundamental of Nuclear War Aspects – includes Disasters Caused by Nuclear Weapons, Nuclear Radiation, Nuclear Power Plant Accidents, Dirty Bombs, Nuclear Wastes, Use of Depleted Uranium and Nuclear Terrorism. Protective Measures from Nuclear Disasters
4. Fundamentals of Biological War – Categorization of Biological Hazards, Communicable Diseases and Bio-terrorism. Protective Measures from Biological Disasters

**Unit**

5. Fundamentals of Chemical War – Dimensions of Hazardous Chemical Material, Gases, Chemical Hazardous Waste, Chemical Terrorism. Protective Measures from Chemical Hazard
6. Terrorism, Weapon of Mass Destructions, Suicide Attacks, Hijacking, Landmines, Improvised Explosive Devices, Cyber/Information Warfare, Civil Strife and Internal Threats Causing Disaster like Situations

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4. D. Rajasekhar, Handbook of Decentralised Governance and Development in India (Routledge 2022).
5. Sreerupa Sengupta, Avik Sinha, Localising the SDGs in India: The Role of