

Major IV

DM-FDM-122 Fundamentals of Disaster Management

Cr. H. 3

Course Description:

Upon Successful completion of this course, the student will be able to the basic concepts of disaster management, disaster risk, vulnerability, capacity, disaster risk situation, impacts and evolution of disaster management.

Course Outline:

1 Introduction to Disaster Management

- Basics Concepts evolving terminologies in Disaster Management
- Nature and Scope of Disaster Management
- Historical Evolution

2 Classification of Disasters

- Socio-Natural Disasters
- Anthropogenic Disasters
- Technological Disasters

3 Concept of Risk, Vulnerability and Capacity

- Disaster Risk
- Vulnerability (Types and Causes, Models)
- Capacity and Types of Capacity

- Level of Capacities
- 4 Disaster Risks Trends**
 - Global Disaster Risk Trends
 - Costs and Frequency
 - Historical Review of Disasters Trends
- 5 Case Studies on Impacts of Disasters**
 - Economic
 - Social
 - Environmental
 - Physical Infrastructure

Teaching Methodology

- Lecturing
- Written Assignments
- Documentaries
- Interactive Sessions

Assessment Criteria:

1st Term (25%) Assignments/Quizzes and Presentations

Mid Term (35%) Written (Long Questions, Short Questions, MCQs)

Final Term (40%) Written (Long Questions, Short Questions, MCQs)

- Written (Long Questions, Short Questions, MCQs)

Textbooks:

1. Pravin Khandve (2024). Fundamentals of Disaster Management. (2024). (n.p.): Notion Press.
2. IGI Global (2024). Challenges, Strategies, and Resiliency in Disaster and Risk Management. (2024). United States: IGI Global.
3. Comprehensive Risk Assessment for Natural Hazards. World Meteorological Organization 2006.
4. DAMON, P. C. (2006) International Disaster Management. Butterworth-Heinemann.
5. Khan A.N. (2016) Introduction to Hazards and Disasters. Al-Azhar Environmental planning and management, Peshawar
6. Rahman A. 2010. Disaster Risk Management: Flood Perspective. VDM Verlag Publishing Co. Ltd Germany, ISBN 978-3-639-29891-8, 192 Pages.
7. Rahman A., Khan AN., Shaw R. (2015) Disaster Risk Reduction Approaches in Pakistan. Springer Tokyo.
8. Shaw R, Rahman A, Surjan A, Parvin GA. 2016. Urban Disasters and Resilience in Asia. Elsevier, New York.

9. UNISDR. (2009). Global Assessment Report on Disaster Risk Reduction, United Nations International Strategy for Disaster Reduction.
10. W. N. Carter (1999) Disaster Management: Disaster Manager's Handbook, Manila: Asian Development Bank.
11. Wisner, B., P. Blaikie, T. Cannon, and I. Davis. (2004). "At Risk: Natural Hazards, People's Vulnerability and Disasters (2nd Ed.)." Rutledge, London, UK.