

Department of Geography
Prof. Rajendra Singh (Rajju Bhaiya) University, Prayagraj

Vocational Course: Disaster Management

Course Outcomes:

Course Code: I010021T

Students will be able to understand

- The course aim is to give a basic understanding of the concept of Environment, Climate Change and Disaster Management.
- Understanding of the concept of appraisal and conservation of Environment and Natural Resources.
- It will help in developing an understanding of various Impacts of Climate Change.
- This course shall introduce the basic concepts related to disaster Management.

Credits:03

MM=100

Unit	Topic	No. of Hours
I	Disasters, Hazards, Risk, Vulnerability, Type of Disasters; Concept and components of Environment, Ecology and Ecosystem. Indian traditional knowledge in Environment and Disaster Management.	15
II	Bio-diversity and its conservation, Pollution, Types of Pollution and its Impact on the Ecosystem. Deforestation, soil erosion, soil exhaustion, Desertification, Air pollution, water pollution Disposal of solid waste. Science of Climate Change: Understanding Climate Change; Green House Gases and Global Warming.	15
III	Flood, Drought, Cyclone, Earthquake, Tsunami, Landslide, Chemical and Nuclear Disasters.	10
IV	Disaster Management, Disaster Management Cycle.	5

REFERENCES

1. Casper J.K. (2010). Changing Ecosystems: Effects of Global Warming. New York, USA: Infobase Pub.
2. Hudson, T. (2011). Living with Earth: An Introduction to Environmental Geology. Delhi, India: PHI Learning Private Limited.
3. Miller, G.T. (2007). Living in the Environment: Principal, Connections, and Solutions. Belmont, Australia: Brooks/ Cole Cengage Learning.
4. Singh, R.B. (1993) Environmental Geography. Delhi, India: Heritage Publishers.
5. UNEP. (2007). Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme. UK: University Press, Cambridge.

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6. Government of India. (2011). Disaster Management in India. Delhi, India: Ministry of Home Affairs.
7. Singh, Savendra (2019) Prayavaran Bhugol, Pravalika Publication, Allahabad
8. Kapur, A. (2010). Vulnerable India: A Geographical Study of Disasters. Delhi, India: Sage Publication.
9. Singh, Savendra (2019) Apada Prabandhan, Pravalika Publication, Allahabad.
10. Ramkumar, M. (2009). Geological Hazards: Causes, Consequences and Methods of Containment. New Delhi, India: New India Publishing Agency.
10. Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC
11. Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability.
12. Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health
13. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.
14. The Climate Change Policy Framework: Global Initiatives UNFCCC and COPs; National and Local Action Plan on Climate Change.
15. Government of India. (2008). Vulnerability Atlas of India. New Delhi, India: Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India
16. Modh, S. (2010). Managing Natural Disaster: Hydrological, Marine and Geological Disasters. Delhi, India: Macmillan.
17. Bansal SC,(2020) Jalvayu vigyan evam Samudra Vigyan, Meenakshi Publication, Meerut.
18. Bansal SC,(2019) Prayavarn ek adhyan, Meenakshi Publication, Meerut

1. This course can be opted as an elective by the students of All subjects: Open to all

2. Evaluation Methods: (Internal Evaluation)

- **Practical (Training) = 60 Marks**
- **Theoretical Exam = 40 Marks**

3. Suggested equivalent online courses:

IGNOU & Other centrally/state-operated Universities / MOOC platforms such as “SWAYAM” in India and Abroad.