

SAVITRIBAI PHULE PUNE UNIVERSITY
Geography T.Y.B.Sc. (Credit System) Revised Syllabus (From
June-2021) Semester: VI

GG 365: Management of Man-Made Disaster

No. of Credits: 02

No. of Periods:

30 Objectives:

1. To acquaint students of various types of disasters.
2. To understand the causes, effects and management of disasters.
3. To make students aware of current development in disaster management.

Sr. No.	Topic	Sub-Topic	Learning Points	Periods
1	Man-Made Disasters	Definition and Concepts.	1 Classification: Physical, chemical, Biological, and Pollution 2 Factors contributing to man-made disaster	06
2	Physical hazards	Causes, Effects and Management	1. Man induced Landslide 2. Forest Fires 3. Desertification 4. Soil Erosion 5. Case study of Australian Forest fires	08
3	Chemical Hazards	Causes, Effects and Management	1. Nuclear Hazard 2. Oil Spills 3. Industrial Chemical Accidents 4. Arsenic contamination of Ground Water 5. Case Study: Chernobyl nuclear disaster	08
4	Biological Hazards	Causes, Effects and Management	1. Pandemic Diseases: Covid-19 2. Locust Swarms 3. Eutrophication 4. Case study of Bhopal Gas Tragedy	08

Reference Books:

1. Singh Savindra (2000) Environmental Geography, Parag Pustak Bhava, Allahabad
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3

5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
8. Singh Jagbir (2007) “Disaster Management Future Challenges and Opportunities”, 2007.Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).
9. Arsenic Contamination of Groundwater: A Review of Sources, Prevalence, Health Risks, and Strategies for Mitigation, Shiv Shankar, Uma Shanker, Shikha, Published in Scientific World Journal, 2014 Link <https://doi.org/10.1155/2014/304524>