

Detailed Syllabus

Curriculum Designed for		Grant-In-Aid
Semester: II	Course No.: 124	Course Code: MDC-1-GEO
		Course Title: Atmospheric Hazards
Credits:	04	Course Category:- MDC

Course Objectives:

Number	Objective
Objective 1:	To explain the concept, meaning, relevance, and scope of atmospheric hazards.
Objective 2:	To develop understanding of various types of atmospheric hazards.
Objective 3:	To analyze the causes of atmospheric hazards, both natural and human-induced
Objective 4:	To examine the impacts of atmospheric hazards on environment, agriculture, economy, and human life.
Objective 5:	To enhance awareness regarding hazard management and mitigation strategies.
Objective 6:	

Course Outcomes: On successful completion of the course, the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO1	REMEMBERING	Recall the historical events and occurrences of atmospheric hazards in India.
CO2	UNDERSTANDING	Explain the meaning, scope, and relevance of atmospheric hazards.
CO3	APPLYING	Identify and classify different types of atmospheric hazards in real-world situations.
CO4	ANALYSING	Analyze the causes (natural and anthropogenic) of atmospheric hazards.
CO5	EVALUATING	Assess the impacts of atmospheric hazards on environment, agriculture, economy, and society.
CO6	CREATING	

Course Contents:

Unit No.	Unit Contents	Sessions Allotted
1	Recorded History of Atmospheric Hazards in India	15
2	Meaning of atmospheric hazards, relevance and scope of its study	15
3	Types of atmospheric hazards – Temperate and tropical cyclones, thunderstorms, tornadoes, cloud bursts, floods and droughts	15
4	Causes and Impacts of Atmospheric Hazards- Causes of atmospheric hazards: Natural factors, Human-induced factors (Climate change, urbanization) Impacts on: Environment, Agriculture, Economy, Human life.	15

REFERENCES:

- 1) 'Introducing Physical Geography'. Strahler & Strahler, 6th edition, 2013 Wiley India Pvt. Ltd.
- 2) 'An Introduction to Climate', Glenn T Trewartha, 1954, Mc Graw Hill Book Company.
- 3) 'Physical Geography', Savindra Singh, 2017, Prayag Pustak Bhawan.
- 4) 'General Climatology', H J Critchfield, 1966, Prentice Hall India.
- 5) 'Ways of Weather', P A Menon, 2005, National Book Trust.

E Resources: 1. www.pmt.education

2. <https://www.geeksforgeeks.org/social-science/natural-hazards-and-disasters-class-11-geography-notes/>