



## **Semester-1**

**Course code: AECC-01**

### **Course Title: Environmental Studies and Disaster Management**

#### **Course Objectives**

1. Gain knowledge on Environment, its structure, climate change, sustainable development, disaster management, different type of diseases and public health management.
2. The learner develop understanding on the Environment, ecosystem, biogeochemical cycle, environmental pollution and capability to identify relevant environmental issues, analyse the various underlying causes, evaluate the practices and policies, and develop framework to make informed decisions.
3. Develop an objective view on population ecology, population growth and controls, climate change and sustainable development goals.
4. Learner lay foundation on the concept of disaster management, vulnerability, assessment and risk analysis, institutional framework, preparedness measures and survival skills.
5. Analyze critical issues in public health management. Gain insight into historical, contemporary perceptive on communicable and non-communicable disease, life style management, transmission of epidemic- pandemic diseases and its prevention. Learner will enable to understand the role of different public sectors in managing health disaster.

#### **Ability Enhancement Compulsory Course (AECC-1)**

	<b>Block-1: The Environment</b>
Unit-1	The Environment
Unit-2	Ecosystem and Biogeochemical Cycle
Unit-3	Environmental Pollution
Unit-4	Environmental Laws

	<b>Block-2: Climate Change and Sustainable Development</b>
Unit-5	Population Ecology
Unit-6	Population Growth and Controls
Unit-7	Climate Change
Unit-8	Sustainable Development

	<b>Block-3: Disaster Management</b>
Unit-9	Disaster Management
Unit-10	Vulnerability Assessment and Risk Analysis
Unit-11	Institutional Framework
Unit-12	Preparedness Measures and Survival Skills

<b>Block-4: Public Health Management</b>	
Unit-13	Communicable/Non-communicable diseases and Dynamics of Diseases Transmission
Unit-14	Brief Idea on Epidemic & Pandemic and its prevention
Unit-15	Life Style Management
Unit-16	Role of Different Sector in Managing Health Disaster

## **Learning Outcomes**

On successful completion of the course the learners will be able to:

- Recognize the connections between the earth and human activity.
- Analyze and describe the effects of humans on the environment.
- Apply knowledge, ideas and techniques from several disciplines to environmental issues.
- The ability to gather, analyze and share data on hazards, relief requirements and disaster-related learning in order to develop measures for mitigation in the future.
- The ability to analyze, assess and manage public health concern at the state and central levels.
- Understand the disasters and pandemic, they are facing and empower the new generation to face the new challenges.

## **Further Readings**

- Dash MC and Mishra PC, Man and Environment, McMillan, London
- Mishra PC and Das MC, Environment and Society, McMillan, London
- Odum EP, Fundamentals of Ecology, Natraj Publication
- Mishra DD, Fundamental Concept in Environmental Studies, S. Chand, New Delhi
- Asthana DK and Asthana Meera, A Textbook of Environmental Studies, S. Chand, New Delhi
- Bharucha Erach, Textbook for Environmental Studies, Universities Press India Pvt. Ltd., Hyderabad