

## **DETAILED SYLLABUS**

### **COURSE 1**

**Course Name: Fundamentals of Disaster**

**Course Code: CDEM-01**

**Credits – 4**

**Marks - 100**

#### **UNIT 1: Concept of Disaster**

Meaning of Hazard and Disaster; Difference between Hazard and Disaster; Historical Perspective; Understanding Various Types of Disasters: Natural and Man-made Disasters, Rapid and Slow on-set Disasters; Different phases of Disasters: Pre-Disaster, During-Disaster, Post-Disaster.

#### **UNIT 2: Natural Disaster**

Overview of Natural Disaster; Origin of Natural Disaster: Geological, Hydro-Meteorological and Biological.

#### **UNIT 3: Geological Disaster**

Earthquake; Tsunami; Landslide; Volcanic Activity; Avalanche; Mud Flow etc.

#### **UNIT 4: Hydro-Meteorological Disaster**

Flood and Bank Erosion; Cyclone; Drought; Desertification; Forest Fire etc.

#### **UNIT 5: Biological Disaster**

Understanding Biological Disaster; Outbreaks of Epidemic Diseases: Avian Flu, Swine Flu, Plague; Pandemic, COVID – 19.

#### **UNIT 6: Man-made Disaster**

Overview of Man-made Disaster: Environmental Degradation, Technological Disaster; War and Conflicts; Secondary Disaster.

#### **UNIT 7: Environmental Degradation**

Deforestation; Desertification; Wild fire; Pollution: Land, Water, Air; Climate Change; Mining.

#### **UNIT 8: Technological Disaster**

Nuclear Accidents; Toxic Wastes; Accidents: Transport and Industrial Accidents, Fires, Oil Spills.

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**COURSE 2**  
**Course Name: Understanding Vulnerability and Risk**  
**Course Code: CDEM-02**

**Credits - 4**

**Marks - 100**

**UNIT 1: Basics of Vulnerability and Risk**

Meaning of Vulnerability and Risk; Significance of Vulnerability and Risk.

**UNIT 2: Concept of Vulnerability**

Vulnerability: Identification, Types, Factors

**UNIT 3: Concept of Risk**

Risk: Types, Elements; Relation among Hazard, Risk and Reduction of Vulnerability.

**UNIT 4: Preliminaries of Vulnerability and Risk Assessment**

Vulnerability Assessment; Risk Assessment.

**UNIT 5: Development and Vulnerability**

Disaster-related Vulnerability; Sustainable Development for Vulnerability Reduction.

**UNIT 6: Understanding Disaster Management**

Meaning of Disaster Management; Disaster Management Cycle; Crisis Management; Risk Management.

**UNIT 7: Disaster Management Act**

Institutional Framework for Disaster Management in India; Disaster Management Act; National Disaster Management Authority (NDMA); State Disaster Management Authority (SDMA); District Disaster Management Authority (DDMA); Disaster Management Authorities at Local Level.

**UNIT 8: Disaster Risk Reduction (DRR)**

Idea of Disaster Risk Reduction; Mitigation Measures: Structural and Non-Structural.

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## **COURSE 3**

**Course Name: Planning in Disaster Management**

**Course Code: CDEM-03**

**Credits - 3**

**Marks - 50**

### **UNIT 1: Importance of Disaster Management Planning**

Disaster Management Plan; National Disaster Management Plan.

### **UNIT 2: Community-based Disaster Preparedness**

Vulnerability at Community Level; Community Perception towards Disaster; Empowering Community; Community-based Disaster Risk Management.

### **UNIT 3: Role of Information and Communication in Disaster Management**

Information, Education and Communication (IEC); Application of Information and Communication Technology in Disaster Management.

### **UNIT 4: Capacity Building in Disaster Management**

Training: Class room, Web-based, Field Training, Training on Specialized Equipment; Specialized Training for People with Disability.

### **UNIT 5: Awareness Campaign**

Importance of Awareness; Ways and Means of Campaigning.

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## **COURSE 4**

**Course Name: Case Study and Report Writing on Disaster and Emergency Management**  
**Course Code: CDEM-04**

**Credits - 5**

**Marks: 50**

In this course, the learners will be required to carry out a field study/case study in a chosen area under the supervision of a teacher and submit a report based on the study. The learners may choose any from the following indicative list of cases for the study:

- i) Any natural/man-made disaster
- ii) Any community practice for disaster preparedness
- iii) Any other event relevant to disaster and emergency management

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