



B.Sc.

SEMESTER - III

EC-301 - Disaster Management

SEMESTER PATTERN :

- The Course content has been designed on **Semester pattern**.
- The workload for Theory is allotted on Semester pattern.
- There shall be **01 Theory papers 70 marks** of 2.30 Hours duration.
- Total Teaching Period 45 lectures.

Paper No.	Name Of The Paper	Total Marks (Internal)	Passing Standard	Total Teaching Hours	Exam Hours	Credits
EC- 301	Disaster Management	70 + 30	28+12	15 WEEKS X 3 HOURS =45	03	02



B.Sc. Semester: III

Paper EC: 301

Title of the Paper: **Disaster Management.**

Credits: 02

Marks : 70 + 30

Unit	Detailed Syllabus	Marks/ Weight
1	<p>Introduction to Natural Disaster Introduction to Disaster Management. Types, Trends, Causes, Consequences and Control of Disasters Geological Disasters: earthquakes, landslides, tsunami, mining Hydro-Meteorological Disasters: Floods, cyclones, lightning, thunder-storms, hail storms, avalanches, droughts, cold and heat waves. Biological Disasters: Epidemics, pest attacks, forest fire. Technological Disasters: Chemical, industrial, radiological, nuclear. Man-made Disasters: Building collapse, rural and urban fire, road and rail accidents, nuclear, radiological, chemicals and biological disasters. Global Disaster Trends – Emerging Risks of Disasters – Climate Change and Urban Disasters. Earthquake Introduction, Examples of Earthquake from the record, Precautions taken during Earthquake, Richter scale. Destruction caused by earthquake, Earthquake prone zone of India.</p>	14
2	<p><u>Land slide</u> Causes of landslide, Types of landslide Sliding forces, Clues to land slides Prevention of landslides, Damage caused by land slide. <u>Tsunami</u> Introduction Tsunami in India, Precautions taken during Earthquake Destruction caused by tsunami</p>	14
3A	<p><u>Flood</u> Types of flood Causes of flood, Damage caused by flood Protective steps against flood, What to do after flood Organization involved in flood relief Major flood records in India <u>Rain Water Harvesting</u> Introduction Need for rain water harvesting,</p>	14



	Method for rain water harvesting	
3B	Cyclone Introduction Cyclones of India, Cyclones prone areas of India Destruction caused by cyclones Fire and Fire Prevention Precaution for fire, What to do and not to do during fire. Fire safety Management.	14
4	Drought Introduction Types of drought, Causes of drought Impact of drought, Drought management Disaster Management in India Disaster Management Act 2005 – Institutional and Financial Mechanism National Policy on Disaster Management, National Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non-Government and Inter-Governmental Agencies	14

:: REFERENCE BOOK ::

1. **Paryavaran Adhyayan**–University Grants Commission Oriental longman private limited.
2. **Paryavaran and Aapatti Vyavasthapan [Gujarati]**, Modi C D & others (2006). Swami prakashan, Patan-384265
3. **Paryavaran and disaster management [Gujarati]**, Patel J C (2006), Parshwa publication, Ahmedabad-380001
4. **Disaster Management**, K Ramana Murthi, 2004, Dominant Publishers and Distributors, New Delhi.
5. **Concept of Ecology**: N. Arumugam Saras publication.