<table>
<thead>
<tr>
<th>Semester and Course No.</th>
<th>Nomenclature</th>
<th>Max. Marks</th>
<th>Hours of Teaching per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE-I</td>
<td>Introduction to Natural &amp; Man-made Disasters</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>COURSE-II</td>
<td>Disaster Preparedness*</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>COURSE-III</td>
<td>Rehabilitation, Reconstruction &amp; Recovery</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>COURSE-IV</td>
<td>Disaster Response and Disaster Management</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>COURSE-V</td>
<td>Risk Assessment and Vulnerability Analysis</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>COURSE VI</td>
<td>Project Report</td>
<td>100</td>
<td>6 Hours</td>
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</tbody>
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|                                     |                                                   |            |                            |
|                                     |                                                   | 600        | 36 Hours                   |
INTRODUCTION TO NATURAL AND MAN MADE DISASTERS

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

Understanding Disasters
- Meaning, nature, characteristics and types of Disasters, Causes and effects, Disaster: A Global View, Disaster Profile of India, The Disaster Management cycle.

UNIT-II

Geological and Mountain Area Disasters
- Earthquakes
- Volcanic Eruption
- Landslides
- Snow Avalanches

UNIT-III

Wind and Water Related Natural Disaster
- Floods and Flash Floods
- Droughts
- Cyclones
- Tsunamis

UNIT-IV

Man Made Disasters
- Understanding Man-Made Disasters
- Fires and Forest Fires
- Nuclear, Biological and Chemical disaster
- Road Accidents

Notes:

1. The paper would be set from the syllabus covering the full content. **EIGHT** questions, two from each unit, are to be framed. Candidates will have to attempt **FOUR** questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:

UNIT-I
Introduction to disaster Preparedness
- Disaster Management: Prevention, Preparedness and Mitigation
- Disaster Preparedness: Concept & Nature
- Disaster Preparedness Plan
- Disaster Preparedness for People and Infrastructure
- Community based Disaster Preparedness Plan

UNIT-II
Roles & Responsibilities of Different Agencies and Govt.
- Roll of Information, Education, Communication & Training
- Role and Responsibilities of Central, State, District and local administration.
- Role and Responsibilities of Armed Forces, Police, Para Military Forces.
- Role and Responsibilities of International Agencies, NGO’s, Community Based Org. (CBO’s)

UNIT-III
Technologies for Disaster Management
- Role of IT in Disaster Preparedness
- Remote Sensing, GIS and GPS
- Use and Application of Emerging Technologies
- Application of Modern Technologies for the Emergency communication.
- Application and use of ICST for different disasters.

UNIT-IV
Disaster Mitigation
- Disaster Mitigation: meaning and concept
- Disaster Mitigation Strategies
- Emerging Trends in Disaster Mitigation
- Mitigation management
- Role of Team and Coordination

NOTE:
1. The paper would be set from the syllabus covering the full content. EIGHT questions, two from each unit, are to be framed. Candidates will have to attempt FOUR questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:
4. www.GIS.Development.net
5. www.iirs.nrsa.org
UNIT-I
- Reconstruction and Rehabilitation as Means of Development
- Damage Assessment
- Role of various Agencies in Disaster Management and Development
- Information Management Structure
- Development of Physical and Economic Infrastructure

UNIT-II
- Creation of Long-term Job Opportunities and Livelihood Options
- Funding Arrangements for Reconstruction
- Nature of Damage to Houses and Infrastructure due to Disasters
- Disaster Resistant House Construction
- Role of Housing/Building Authorities

UNIT-III
- Education and Awareness
- The Philosophy of Coping with Disasters
- Dealing with Victims’ Psychology
- Role of Information Dissemination
- Participative Rehabilitation Process: Some Case Studies

UNIT-IV
- Role of Various Agencies in Recovery Measures
- Monitoring and Evaluation of Rehabilitation Work
- Constraints in Monitoring and Evaluation
- Long-term Recovery
- Long-term Counter Disaster Planning

NOTES:
1. The paper would be set from the syllabus covering the full content. EIGHT questions, two from each unit, are to be framed. Candidates will have to attempt FOUR questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:
4. www.nidmindia.nic.in
COURSE - IV: DISASTER RESPONSE AND MANAGEMENT

Max. Marks: 100
(Theory 80 + LA. 20 Marks)

UNIT-I
Response Essential Components
- Disaster Response Plan
- Communication, Participation and Activation of Emergency Preparedness Plans
- Search, Rescue, Evacuation and other logistic management
- Needs and Damage Assessment; Types and Technique

UNIT-II
Stakeholders Co-ordination in Disaster Response
- Disaster Response: Central, State, District and Local Administration.
- Armed Forces in Disaster Response: Role and Responsibility
- Disaster Response: Police and Other organisations
- Role of Multiple stakeholders in Disaster Response

UNIT-III
Human Behaviour and Response Management
- Psychological Response and Psychological Rehabilitation
- Trauma and Stress Management
- Rumour and Panic Management
- Medical and Health Response to Different Disasters
- Role of Information and Communication Technology in Response Management.

UNIT-IV
Relief Measures
- Minimum Standard of Relief
- Relief Management- essential components
- Funding Relief- short term and long term
- Disaster Site Management
- Recovery.

NOTES:
1. The paper would be set from the syllabus covering the full content. Eight questions, two from each unit, are to be framed. Candidates will have to attempt four questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:
3. www.nidmindia.nic.in
UNIT-I

- Hazard, Risk and Vulnerability: Concept and Relationship
- Understanding Risk: Concepts and Elements
- Disaster Risk Reduction
- Risk Analysis Techniques
- People Participation in Risk Assessment

UNIT-II

- Vulnerability: Concept and Parameters
- Vulnerability Analysis
- Observation and Perception of Vulnerability
- Vulnerability Identification

UNIT-III

- Socio-Economic Factors of Vulnerability
- Vulnerability of Shanty Town
- Experience of Vulnerability in India
- Strategies for Survival

UNIT-IV

- Role of Developmental Planning for disaster Management
- Resource Analyses and Mobilisation
- Population Growth, Infrastructure and Vulnerability Reduction
- Social Infrastructure For Vulnerability Reduction

NOTES:
1. The paper would be set from the syllabus covering the full content. EIGHT questions, two from each unit, are to be framed. Candidates will have to attempt FOUR questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:

3. www.nidmindia.nic.in