

KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

N. H. 37, Khanapara, Guwahati-22



Six-Month Certificate Programme
in
DISASTER AND EMERGENCY MANAGEMENT

(Detailed Syllabus submitted for approval)

(Rajesh Dutta)
Signature

(A. K. Bhagabati)
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Six-Month Certificate Programme in Disaster and Emergency Management

Introduction:

Any disaster event is a disruption occurring over a short or long period of time that causes widespread human, economic or environmental loss which exceeds the ability of the affected community or society to cope with its own resources. Indian subcontinent is among the world's most disaster-prone land masses and vulnerable to one or the other hazard(s). A high population density and geographical location increases our vulnerability to various hazards. Disaster may occur any time – some are predictable others are not. Therefore preparedness is very much essential for every individual.

Understanding the importance and challenges of various disasters and emergency situation is vital for the safety and security of human life, infrastructure, environment, economy, etc. Thus capacity building of individuals is very much needed for preparedness, mitigation, response, recovery, rehabilitation across various phases in disaster management.

This Certificate Programme in Disaster and Emergency Management provides comprehensive knowledge to the learners in identifying hazards and preliminary idea to address the needs for emergency management. Moreover, the course enables the students to explore the knowledge and skills required for working successfully with groups / organization for disaster management planning.

Programme Objective: The programme has the following objectives:

1. To impart knowledge on various disasters and emergency situations.
2. To provide emergency preparedness to face any disaster.
3. To develop capability towards disaster management.

Programme Outcome: The outcomes of the programme are manifold:

- It will enable the learners to contribute in risk reduction, community resilience and sustainable communities
- The programme will also help the learner to explore key concepts, methodologies and technologies used in disaster emergency management
- It is highly expected that the learners will be enriched with skills necessary to manage emergency situations in the individual, organization, community and government level
- Further, the learner can contribute to emergency response and to disaster management planning at individual / organizational level
- This programme will enable the learners to undertake hazard risk assessment survey
- It will also help in undertaking Diploma / Post Graduate level course in Disaster Management.

Programme Details:

The Certificate Programme in Disaster and Emergency Management is a six-month programme with 3 (three) theory papers and 1 (one) practical paper.

The detailed structure of the programme is as follows:

Programme Name	Certificate Programme in Disaster and Emergency Management						
Duration	6 Months						
Eligibility	10+2						
Course Code	Course Title	Theory/ Practical	No. of Units	Credits	Contact hours	Marks	Language
CDEM-01	Fundamentals of Disaster	Theory	8	4		100	English
CDEM-02	Understanding Vulnerability and Risk	Theory	8	4		100	
CDEM-03	Planning in Disaster Management	Theory	5	3		50	
CDEM-04	Case Study and Report Writing on Disaster and Emergency Management	Practical	--	5		50	
Total				16		300	

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Detailed Syllabus

Course Name: Fundamentals of Disaster

Course Code: CDEM-01

Credits – 4

Marks - 100

UNIT 1: Concept of Disaster

15

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

12

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

UNIT 3: Geological Disaster

12

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

UNIT 4: Hydro-Meteorological Disaster

12

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

UNIT 5: Biological Disaster

12

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

UNIT 6: Man-made Disaster

15

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

UNIT 7: Environmental Degradation

12

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

UNIT 8: Technological Disaster

10

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



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Course Name: Understanding Vulnerability and Risk

Course Code: CDEM-02

Credits - 4

Marks - 100

UNIT 1: Basics of Vulnerability and Risk

15

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

UNIT 2: Concept of Vulnerability

12

Vulnerability: Identification, Types, Factors

UNIT 3: Concept of Risk

12

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

UNIT 4: Preliminaries of Vulnerability and Risk Assessment

12

Vulnerability Assessment; Risk Assessment.

UNIT 5: Development and Vulnerability

12

Disaster-related Vulnerability; Sustainable Development for Vulnerability Reduction.

UNIT 6: Understanding Disaster Management

15

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

UNIT 7: Disaster Management Act

12

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)

10

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



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Course Name: Planning in Disaster Management

Course Code: CDEM-03

Credits - 3

Marks - 50

UNIT 1: Importance of Disaster Management Planning

10

Disaster Management Plan; National Disaster Management Plan.

UNIT 2: Community-based Disaster Preparedness

10

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

10

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

UNIT 4: Capacity Building in Disaster Management

10

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

UNIT 5: Awareness Campaign

10

Importance of Awareness; Ways and Means of Campaigning.



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**Course Name: Case Study and Report Writing on Disaster and Emergency
Management**

Course Code: CDEM-04

Credits - 5

Marks: 50

In this paper, 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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