

B.Ed ELECTIVE COURSE XI

SAFETY AND DISASTER MANAGEMENT EDUCATION

OBJECTIVES:

At the end of the course the student -teachers will be able to

- acquire adequate knowledge about disasters
- understand the management techniques and strategies of disasters
- gain practical knowledge of various techniques used in disasters
- gain awareness of the various impacts of disasters
- develop the skill of using safety measures during disasters
- analyse the different modelling approaches in natural disasters
- apply the mitigation strategies in the future
- acquire the skills necessary during emergency

UNIT I DISASTER TYPES

Introduction – Scope – Need – Natural disaster – Earthquakes, drought, floods, cyclones, landslides & tsunami. Manmade disaster – Technological – Industrial – components – Impact on Environment – General – Economic – Social – Political.

UNIT II TSUNAMI

Tsunami –Detection – Warning systems – Preparedness – Precautions – Survival skills – communication systems – sharing responsibilities – Government Agencies – Voluntary Organizations.

UNIT III STRATEGIES AND MANAGEMENT

Meaning – Strategies – Four phases of activity – Risk assessment – Risk prevention – Preparedness – Emergency response – some disasters and their management – Role of Government – Disaster management in India.

UNIT IV RISK MANAGEMENT PROCESS

Hazards – vulnerability factors – coping capacities – outputs from risk assessment – Global Insecurities and their linkages to disaster risk management process.

UNIT V POLICY FRAMEWORK STRATEGIES

Global Disaster risk situation – Evolution of disaster risk management - key cross themes – Development, Gender, Environment, Globalization, Food security – Stakeholder participation & Complex emergencies.

UNIT VI PREPAREDNESS PLANNING

Key preparedness – Emergency co-ordination centers – Early warning systems – Damage assessment & Need with the help of media – Evacuation & camp management.

UNIT VII PREVENTION / MITIGATION

Framework for prevention and mitigation – structural mitigation – community based disaster management – Institutional and Legal mechanisms – Role of public awareness – Preparation of mitigation strategies.

UNIT VIII MITIGATION MODELS

Disaster Mitigation models – Flat source model – Structured source model – Hub - Less model – Disaster Co-ordination centre - Coastal Hazards – Current Conditions – Science and Technology – Application at different Level – Local, regional & national.

UNIT IX IMPLEMENTATION

Change management – Accountability in disaster risk management – Monitoring & evaluation – Development of personal action plan.

UNIT X USE OF TECHNOLOGIES

Geographical Information system (GIS) – Remote sensing (RS), Global positioning system (GPS), Data Mining (DM), Global Tele communication system (GTS), Disaster Analyzer and Tracking Environment (DATE), Information Communication system (ICS).

PRACTICAL:

- (i) Prepare a project report on the causes and consequences of Tsunami
- (ii) Preparing a report on the responsibilities of any one of the voluntary organization.
- (iii) Write a report on any one of the technologies used in the mitigation of disasters.
- (iv) Prepare a report on organization of a disaster operation club in the school.
- (v) Critically evaluate the Government policies pertaining to safety and disaster management.

SUGGESTED REFERENCE BOOKS:

Ayaz. (2009). *Disaster Management: Through the New Millennium*. New Delhi: Anmol Publications.

Bose, B. C. (2009). *Modern Encyclopaedia of Disaster and Hazard Management*. New Delhi: Rajat Publications.

Dave, P. K. (2009). *Emergency Medical Services and Disaster Management: A Holistic Approach*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Narayan, B. (2009). *Disaster Management*. New Delhi: A.P.H. Publishing Corporation.

Kumar, N. (2009). *Disaster Management*. New Delhi: Alfa Publications.

Ghosh, G. K. (2008). *Disaster Management*. New Delhi: A.P.H Publishing Corporation.

Goel, S. L. (2008). *Disaster Management*. New Delhi: Deep & Deep Publication Pvt. Ltd.

Singh, R. B. (2008). *Disaster Management*. New Delhi: Rawat Publications.

Kumar, A. (2008). *Disaster Management : Recent approaches*. New Delhi: Anmol Publications