

**ORDINANCES & SYLLABUS OF
P. G. DIPLOMA IN DISASTER RELIEF
& REHABILITATION**

(Self-financing mode)

Coordinator
Prof. D. K. Singh



**Faculty of Arts
DEPARTMENT OF SOCIAL WORK
UNIVERSITY OF LUCKNOW
LUCKNOW**

P. G. DIPLOMA IN DISASTER RELIEF & REHABILITATION

ORDINANCES

TITLE:

The title of the course shall be "P. G. Diploma in Disaster Relief & Rehabilitation"

OBJECTIVE:

The aim of this course is to impart knowledge of disaster, methods and techniques of its Rehabilitation and relief.

DURATION;

The total duration of the course shall be one year divided in two semesters.

SEATS:

The total number of the student to be admitted to the course shall be 60

ELIGIBILITY:

Minimum qualification should be graduate in any discipline with 45% marks.

ADMISSION POLICY:

Admission will be made on the basis of University rules. Reservation Policy of the Lucknow University will be followed.

COURSE CONTENTS:

The curriculum of the course shall consist of theory papers and dissertation as under:

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| I. | Theory Paper | : | There shall be 4 papers of 100 marks each |
| II. | Project Report/
Dissertation + Viva | : | 100 marks |

ATTENDANCE:

Seventy five Percent attendances shall be compulsory.

FEES:

Fees of the course shall be 8,500.00 per year per student. It will be revised from time to time by University of Lucknow.

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COURSE STRUCTURE

Paper No.	Title of the Paper	Max. Marks
Paper – I	Disaster, Human Society and Environmental Conservation	100
Paper – II	Understanding Natural Disaster	100
Paper – III	Understanding Man-made Disaster	100
Paper – IV	Disaster Prevention and Control Planning	100
Paper – V	Project Report/Dissertation/Viva	100
	Total Marks	500

Paper I

Disaster, Human Society and Environmental Conservation

Unit I

Disaster Perception: Hazard, Risk, Vulnerability and Disaster, Risk and Vulnerability Analysis, Vulnerability Reduction.

Disaster Management & Mitigation: Concept and Methods

Human Society: Meaning, Definition, Structure, Groups, Community, Caste, Class, Family, Rural Society & Urban Society.

Unit II

Population: Meaning, Historical Background, Composition, Literacy; Status and Impact.

Migration and Urbanization: Meaning, Causes and Consequences.

Population as a Problem: Population Growth, Causes of Rapid Growth in India.

Unit III

Environment and Resource: Meaning, Definition, Natural Resources, Human Resource, Financial Resource, Impact of Population Growth on Natural Resources.

Sustainable Development: Concept, Meaning, Definitions, Needs, Areas and Strategies.

Development and Disaster: Disaster Centric Development.

Unit IV

Legislative Provision for Environmental Conservation

- (i) Environment (Protection) Act
- (ii) Air Prevention and Control of Pollution Act
- (iii) Water (Prevention and Control) Act
- (iv) Wild Protection Act
- (v) Forest Conservation Act
- (vi) Environment Impact Assessment (EIA)
- (vii) Disaster Management Act, 2005

Books Recommended

1. Salpekar Aradhna, Rudra Tanmay, 2010, Capacity Building for Disaster Management, Jnanada Prakashan, New Delhi.
2. Kumar Arun, 2008, Global Disaster Management, SBS Publishers and Distributors Pvt. Ltd., New Delhi.
3. Sharma Kadambari, Chiranjeev Avinash, 2010, Disaster Management in India, Jnanada Prakashan, New Delhi.
4. Talwar Arun Kumar, Juneja Satish, 2009, Natural Disaster

Management, Common Wealth Publishers, New Delhi.

5. Singh Mahendra, 2008, Natural Calamities in India, Satyam Publishing House, New Delhi.
6. Salpekr Aaradhna, Sharma Kadambari, 2010, Disaster Management and Development Interphase, Jnanada Prakashan, New Delhi.

Paper II

Understanding Natural Disaster

Unit I

Earthquakes: Causes, Mechanism and Effects, Do's & Don'ts.

Land Slides: Causes, Mechanism and Effects, Do's & Don'ts.

Land Degradation: Causes and Effects.

Case Study: Gujarat Earthquake 2001, Kashmir Earthquake 2005, Malpa Landslide.

Unit II

Flood: Meaning, Causes, Effects, Collapse of Dams and River Diversions, Do's & Don'ts.

Sea Level Change: Causes and Effects.

Ground Water: Ground Water Table, Decline, Effect and Control.

Case Study: 2004 Indian Ocean Tsunami, Japan Tsunami 2011, Mumbai Flood 2005, Kosi Flood 2008.

Unit III

Air Pollution: Causes, Effect, Air Quality Monitoring, Air Quality in Mega-cities, Carbon Di-oxide emission.

Cyclone: Type, Cyclone Prone areas of India, Impact of Cyclones, Do's & Don'ts.

Case Study: Orissa Super Cyclone 1999, Air Pollution in Lucknow City.

Unit IV

Atmospheric Disaster: Green House Gases and Climate, Green House Effect, Global Warming and its Effect

Ozone Layer: Ozone Layer Depletion, Causes and Effects.

Acid Rain: Causes and Impacts.

Contemporary Issues: Desertification, Drought and Famine in India.

Books Recommended

1. Rai Nishith, Mishra Anjuli, 2007, Sustainable Urban Management, New Royal Book Company, Lucknow.

2. Trivedi Priya Ranjan, Rai Rahul, 2010, Disaster and Human Extinction, Janada Prakashan, New Delhi.
3. Talwar Arun Kumar, Juneja Satish, 2009, Tsunami Disaster Management, Common Wealth Publishers, New Delhi.
4. Talwar Kumar Arun, Juneja Satish, 2009, Flood Disaster Management, Common Wealth Publishers, New Delhi.
5. Ahmad Aijazuddin, 2009, Glography of South Asian Subcontinent, Concept Publication Company, New Delhi.
6. Talwar Kumar Arun, Juneja Satish, 2009, Drought Disaster Management, Common Wealth Publishers, New Delhi.

Paper III

Understanding Man- made Disaster

Unit I

Industrial Disaster: Industrial Consumption and Waste Generation, Toxic Chemicals, Effects on Environment, Do's & Don'ts.

Nuclear Disaster: Nuclear Power Plants, Radioactivity, Radioactive Leakage, IAEA, NPT & NSG, Do's & Don'ts for Radiation Leakage.

Case Study: Bhopal Gas Tragedy 1984, Chernobyle Radiation 1986, Three Mile Island Accident 1979, Japan Nuclear Accident 2011.

Unit II

Mining: Subsidence, Coal Fire and Oil Fire, Effect on Environment.

Marine Pollution: Sources, Trends, Biological Perspective and Effect.

River Pollution: Cause, Effect, Status of River Pollution.

Case Study: Gomti River Pollution, Ganga River Pollution, Mining in Chota Nagpur Plateau.

Unit III

War: Definition, Disaster Related to War, Impact of Military Activities on Environment.

Terrorism: Terrorism and Militancy, Terrorist Organizations and Activities.

Weapons: Bomb Blasts, Biological Weapons, Chemical Weapons, Biological & Chemical Conventions.

Case Study: IInd World War, Munich Massacre 1972, Kanishka Bombing 1985, 9/11, Indian Parliament Attack 2001, Mumbai Terrorist Attacks 2008.

Unit IV

Road, Rail and Air Accident: Status, Causes and Prevention.

Slums: Status, Cause of Expansion and Related Problems.

Epidemics and Occupational Hazards: Malaria, Dengue, Occupational hazards

related to various industries.

Communal Riots: Communalism, Causes and Effects.

Books Recommended

1. Kumar Dinesh, 2009, Water Management in India, Gyan Publishing House, New Delhi.
2. Sinha C. Prabha &.2009Disaster Mitigation: Preparedness, Recovery and Reponse, SBS Application and Distribution Pvt. Ltd., New Delhi.
3. Kamat Dushyant, Gandhi Gurasamy, 2010, Management and Mitigation of Technological Disaster, Jananada Prakashan (P&D), New Delhi.
4. Diwan Parag, 2010, A Manual on Disaster Management, Pentagon Earth, New Delhi.
5. Rai Nishith, Bagga Urmila, 2006, Urban Management New Royal Book Co., Lucknow.
6. Ambedkar J.B., 2009, Peasants, Enviroment and Sustainable Development, Rawat Publication, Jaipur.
7. Malhotra B. N., 2010, Managing Natural Resources for Sustainable Livelihoods, Pearl Book, New Delhi.

Paper IV

Disaster Prevention, Planning and Mitigation

Unit I

Common Health Problems: Common Health Problems in Disasters, Epidemic and Communicable Diseases in Disasters.

Health Care: Local Health Care Agencies - P.H.C., C.H.C., District Hospitals.

First Aid: Meaning and component, Broken Bones and Fractures, Sprains

Immediate Required Actions.

Unit II

Team Work and Leadership: Component and Characteristics.

Coordination: Meaning, Component and Coordination with Multi Disciplinary Agencies. Counselling: Meaning, Methods and Counselling with Victims, Education and Awareness, Pre disaster counselling and awareness.

Search & Rescue and Mock Drills: Methods and Techniques.

Unit III

Pre-disaster Planning: Central, State and District Level.

NDMA, SDMA & DDMA - Structure and Functions.

International Responses to Disaster: UNDP Projects, Role of the Armed Forces, UN Initiative.

Relief Commissioner: Roles and Responsibility.

Unit IV

Community Resource: Community Organization and Community Resource Mobilization.

Media: Role of Media and Information in Disaster Management.

Remote Sensing and GIS: Techniques, Post and During Disaster Application, Damage Assessment, Application in Flood, Earthquake and Landslide.

Books Recommended

1. Bakshi S., 2010, Community Livelihoods and Natural Resources Pearl Book, New Delhi.
2. Bhalla Ashok, 2008 Global Warming Causes, Effects and Prevention, Betterhood Panchkula.
3. Doniwal Hement Kumar, 2009, Urban Geography, Gnosis Publishers of Education Book, New Delhi.
4. Trivedi Priyaranjan , Singh Uttam Kumar, 2009, Jaiv Proudhyogiki avam Apda Prabandhan, Gyanda Prakashan, New Delhi.
5. Sharma Deepti, Kumar Mahendra, 2009, Paryavaran avam Samvikas, Arjun Publishing House, New Delhi.
6. Trivedi Priyaranjan , Singh Uttam Kumar, 2009, Yudhh Paryavaran avam Apda Prabandhan, Gyanda Prakashan, New Delhi.
8. Sharma Deepti, Kumar Mahendra, 2009, Paryavaran Jaiv Sanrakshan, Arjun Publishing House, New Delhi.

Paper – V Project Report/Dissertation/Viva

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