

POST-GRADUATE DIPLOMA IN DEFENCE AND DISASTER MANAGEMENT

General Information for Students

Eligibility for Admission

Graduate or Post-Graduate of a recognised Indian University from any discipline, securing a minimum of 45% marks at the first degree or postgraduate examination are eligible for admission.

Admission Procedure

Admission will be based on Merit.

Duration

The duration of the course will be of one academic session.

Number of Seats

Minimum of 20 and maximum 80. This will include reserved seats belonging to SC, ST. and Sports quota as per University Rules, provided they qualify the eligibility.

Fee

Tuition fee will be Rs. 8,000/- per annum payable at the time of admission. In addition, a candidate will be required to pay examination fee as per University Rules and other fees as required by the University.

Attendance

A Candidate who wishes to appear at the examination will have to attend at least 70% of the total lectures delivered in each paper

Medium

English/Hindi will be the medium both for Teaching and Examination.

Scheme of Examination

The Scheme of Examination shall be as follows:

(A) Written Examination of three hours duration in each of the following papers:

Paper	Sub. Name	Max Marks	Min. Marks
I	Introduction to Natural & Man-made Disasters	100	40
II	Disaster Preparedness	100	40
III	Disaster Response and Disaster Management	100	40
IV	National Defence and Security	100	40
(B)	Field Studies and Report	50	20
(C)	Viva-voce	50	20

Marks in all the Theory papers and viva/practical and not less than 40% marks in the aggregate.

A Candidate is required to passing the written and the practical/viva examination separately.

Candidate will submit a field study and report + viva voce

Award of division : The Division will be awarded as follows:

First Division Minimum 60% marks in aggregate

Second Division Minimum 50% marks in aggregate

Third Division Minimum 40% marks in aggregate

Candidate who fail in the examination but obtain passing marks in project reports and viva voce will be carry for warded next year in the same examination at his/her opinion.

Paper I

Introduction to Natural & Man-made Disasters

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

Climate Change: Global Warming , Sea Level Rise , Ozone Depletion

UNIT- V

Man Made Disasters : Understanding Man-Made Disasters , Fires and Forest Fires , Nuclear, Biological and Chemical disaster , Road Accidents, Rail Accidents , Air Accidents , Sea Accidents, Pollution

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila.
3. Central Water Commission, 1987, Flood Atlas of India, CWC, New Delhi.
4. Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.
5. Government of India, 1997, Vulnerability Atlas of India, New Delhi.
6. Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

Paper II

Disaster Preparedness

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

UNIT-V

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

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Roy, P.S. (2000): Space Technology for Disaster management: A Remote Sensing & GIS Perspective, Indian Institute of Remote Sensing (NRSA) Dehradun.
3. Sharma, R.K. & Sharma, G. (2005) (ed) Natural Disaster, APH Publishing Corporation, New Delhi.
4. www.GIS. Development.net
5. www.iirs.nrsa.org
6. <http://quake.usgs.gov>

Paper III

Disaster Response and Disaster Management

UNIT-I

Reconstruction and Rehabilitation as Means of Development , Strategies for Survival , 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.

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.

UNIT-V

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

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Kasperson, J.X., R.E. Kasperson, and B.L. Turner III (Eds.), 1995, Regions at Risk: Comparisons of Threatened Environments, United Nations University Press, Tokyo
3. Singh Satendra (2003): Disaster Management in the Hills, Concept Publishing Company, New Delhi.
4. White, G.F, 1974, Natural Hazards: Local, National, Global, Oxford University Press, New York.
5. Taori, K (2005) Disaster Management through Panchayati Raj, Concept Publishing Company, New Delhi.
6. www.nidmindia.nic.in
7. <http://www.cambridge.org>

Paper IV

National Defence and Security Management

UNIT-I

Civil Defence: Meaning, aim, organization and need, Role of civil defence before and after of war, Civil and Military relation, Pillars of Peace.

UNIT-II

India's Nuclear programme, India's Nuclear policy and its Doctrine, Missiles development, Type and its impact.

UNIT-III

Chemical and Biological weapons, International Treaties banning Chemical and Biological weapons, Military Applications of laser rays.

UNIT-IV

Internal security problems of India, Insurgency, Nexalism, Secessionism and terrorism, Economic security, Water security and environmental security, Energy security and human security.

UNIT-V

Conceptual frame work of National Security, Evolution of National Security thinking in new perspective, Challenge to security: Individual, Sub-National, National, Regional and International.

Suggested Readings:

1. World Army through the age: Col. Gautam Sharma.
2. Battle of World History: Col. Maleson.
3. People, State and Fear: Barry Buzam.
4. National Security: K. Subrainanyam.
5. India's Foreign Policy : J.N. Dixit.
6. Asian Security : Air Comdr. Jasjit Singh.
7. India's Foreign Policy : J. Bandopadhya
8. Asean Security : Air Comdr, Jasjit Singh.
- 9 . Antarrashtriya Rajniti – B.L. Fadia.