



Guru Gobind Singh Indraprastha University
"A State University established by the Govt. of NCT of Delhi"
Dwarka, Sector-16/C, Delhi-110078 Website: <http://ipu.ac.in>



Centre of Excellence in Disaster Management

GGSIU/CEDM/2024/6(3)2/ 447

Dated: 19th January, 2024

Notification

Sub: Revision of the Scheme, Syllabus and eligibility criteria of One Year Post Graduate Diploma and Two Year MBA (Disaster Management) Weekend Programme as per the New Education Polity 2020 w.e.f. Academic Session 2024-25

This is for information of all concerned that the Competent Authority (Academic Council), Guru Gobind Singh Indraprastha University has approved revision of the Scheme, Syllabus and eligibility criteria of One Year Post Graduate Diploma and Two Year MBA (Disaster Management) Weekend Programme as per the New Education Polity 2020 w.e.f. Academic Session 2024-25 in its 57th meeting held on 20th December, 2023 vide Agenda item no. 57.39, as attached herewith.

(Prof. Amarjeet Kaur)
Director, CEDM

Copy forwarded to the following for information & necessary action to:

1. Director, Academic Affairs, GGS Indraprastha University.
2. Controller of Examination – I & II, GGS Indraprastha University
3. Controller of Finance, GGS Indraprastha University
4. AR to Hon'ble VC, GGS Indraprastha University
5. AR to Registrar, GGS Indraprastha University
6. Head (UITs), GGS Indraprastha University
7. Guard File



Guru Gobind Singh Indraprastha University
'A State University established by the Govt. of NCT of Delhi'
Sector – 16C Dwarka, New Delhi – 110078
(Coordination Branch)

Ph:011-25302135-136, Website: www.ipu.ac.in
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F.No.: GGSIPU/Coord./57th AC/2023/967

Dated: 28th December, 2023

CIRCULAR

Sub: Minutes of the 57th meeting of the Academic Council of the Guru Gobind Singh Indraprastha University

Please find enclosed herewith the minutes of the 57th meeting of the Academic Council of the Guru Gobind Singh Indraprastha University, held through offline/ online mode on 20.12.2023 at 11.00 AM.


(Sunita Shiva)
Registrar

F.No.: GGSIPU/Coord./57th AC/2023/967

Dated: 28th December, 2023

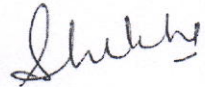
To,

1. Dean- USBAS/ USBT/ USCT/ USEM/ USICT/ USHSS/ USMC/ USLLS/ USM&PMHS/ USMS/ USAP/ USE/ USAR/ USDI, GGSIP University.
2. Director- Academic Affairs/ Coordination/ Students' Welfare/ CEDM/ Development/ International Affairs/ CEPS/ Research and Development Cell/ Legal Aid / Research Project Monitoring & Innovation/IUIC/ CCGPC/ East Campus, GGSIP University.
3. Librarian, GGSIP University.
4. Prof. J.L. Gupta, Delhi University, Resi: CP-18, Maurya Enclave, Pitampura, Delhi-110034.
5. Dr. Mahesh Patel, Professor of Pathology, B. J. Medical College Civil hospital Ahmedabad-380016. Resi: F001, Shilalekh Society, Shahibaug, Ahmedabad-380004.
6. Dr. Ashok Chakradhar, Former Head, Department of Hindi, Jamia Millia Islamia, Resi: J- 116, Sarita Vihar, New Delhi-110076.
7. Prof. Rajiv Kapoor, Department of Electronics and Communication Engineering, Delhi Technological University, Shahbad Daultpur, Bawana Road, Delhi-110042.
8. Dr. Sanjeev Kumar Singhal, CA, Member Central Council, The Institute of Chartered Accountants of India, New Delhi, Resi: C-2/164 West Enclave Pitampura Delhi-110034.
9. Prof. (Dr.) Sangeeta Talwar, Director – Principal, Maulana Azad Institute of Dental Sciences, MAMC Complex, BSZ Marg, New Delhi-110002.
10. Prof. (Dr.) Alka Chawla, Campus Law Centre, Faculty of Law, University of Delhi, Delhi-110007.
11. Sh. Ashish Gupta, Jt. Hony. Secretary, The Indian Institute of Architects, Northern Chapter, 3/19, Basement, Nehru Enclave, New Delhi-110 019.
12. Prof. Kavita Singh, Faculty of Management Studies, University of Delhi – 110007.
13. Prof. Aejaaz Masih, Department of Educational Studies, Jamia Millia Islamia, Jamia Nagar, New Delhi – 110025.
14. Prof. Prodyut Bhattacharya, University School of Environment Management, GGSIP University.
15. Prof. Amit Prakash Singh, University School of Information Communication & Technology, GGSIP University.
16. Prof. Shalini Garg, University School of Management Studies, GGSIP University.
17. Prof. Lisa P. Lukose, University School of Law and Legal Studies, GGSIP University.

18. Dr. Satyabrata Mohapatra, University School of Basic & Applied Sciences, GGSIP University.
19. Prof. M.N. Hoda, Director, Bharti Vidhyapeeth's Institute of Computer Application & Management, A-4, Paschim Vihar, Rohtak Road, New Delhi-63.
20. Prof. Sonia Jindal, Principal, Gitarattan Institute of Advanced Studies and Training.
21. Prof. Bharti Dimri, Principal, Pradeep Memorial Comprehensive College of Education, Pratap Vihar, Kirari Extension, Nangloi- 110086.
22. Prof. Ravi K. Dhar, Director, Jagannath International Management School, Vasant Kunj, Delhi.

Copy for information of the Competent Authority:

1. AR to the Vice Chancellor Secretariat for kind information of Hon'ble Vice Chancellor, GGSIP University.
2. AR to the Registrar's Office for kind information of Registrar, GGSIP University.



(Shikha Agarwal)
Deputy Registrar (Coordination)

Agenda Item No. AC 57.35: To consider and approve the start / introduction of weekend Certificate/ Diploma Courses in Foreign Languages- French, Japanese, German and Urdu through online mode w.e.f. the Academic Session 2024-2025.

The Academic Council considered and approved to start / introduction of weekend Certificate/ Diploma Courses in Foreign Languages- French, Japanese, German and Urdu through online mode w.e.f. the Academic Session 2024-2025, as proposed.

Agenda Item No. AC 57.36: To consider and approve increase in intake of 04-Year BA (English), MA (English) and MA (Economics) Programme running under the aegis of University School of Humanities and Social Sciences (USHSS).

The Academic Council considered and approved increase in intake of 04-Year BA (English), MA (English) and MA (Economics) Programme running in the University School of Humanities and Social Sciences (USHSS) as under:

S. No.	Programme	Existing Intake	Approved Intake
4.	04-Year BA (English)	60	120
5.	MA (English)	60	120
6.	MA (Economics)	40	60

Agenda Item No. AC 57.37: To consider and approve introduction/ start of 05-Year BA-MA Programme in Philosophy and Performing Arts under the aegis of University School of Humanities and Social Sciences (USHSS) w.e.f. Academic Session 2025-26.

The Academic Council considered and approved start of 05-Year BA-MA Programme in Philosophy and Performing Arts under the University School of Humanities and Social Sciences (USHSS) w.e.f. Academic Session 2025-26, as proposed.

Agenda Item No. AC 57.38: To consider and approve restructuring of all Under Graduate Programmes, which are not governed by any discipline specific regulatory body other than UGC as Four-Year Degree Programme in accordance with the Curriculum and Credit Framework of UGC as per NEP 2020 guidelines.

The Academic Council considered and approved restructuring of all Under Graduate Programmes, which are not governed by any discipline specific regulatory body other than UGC as Four-Year Degree Programme in accordance with the Curriculum and Credit Framework of UGC as per NEP 2020 guidelines, as proposed.

Agenda Item No. AC 57.39: To ratify the scheme, syllabus and eligibility criteria of One year Post Graduate Diploma and Two year MBA (Disaster Management) Weekend Programme as per the New Education Policy 2020 w.e.f. Academic Session 2024-25.

The Academic Council ratified the scheme, syllabus and eligibility criteria of One year Post Graduate Diploma and Two year MBA (Disaster Management) Weekend Programme as per the New Education Policy 2020 w.e.f. Academic Session 2024-25, as proposed in the agenda.

Agenda Item No. AC 57.40: To consider and approve the Scheme & Syllabus of B.Tech Programme (Computer Science) offered at affiliated colleges/institutions under the aegis of USIC&T for the batch(s) admitted in the programme w.e.f. Academic Session 2023-24 onwards.

The Academic Council considered and approved the Scheme & Syllabus of B.Tech Programme (Computer Science) offered at affiliated colleges/institutions under the aegis of USIC&T for the batch(s) admitted in the programme w.e.f. Academic Session 2023-24 onwards.

Agenda Item No. AC 57.41 : To consider and approve the scheme and syllabus (1st year) of BCA programme of Four-Year Degree Programme as per the NEP 2020 guidelines and UGC Curriculum & Credit Framework for Undergraduate programme (CCFUP) (Dec 2022), being run in Affiliated Institution of GGSIP University under the aegis of USIC&T w.e.f. the Academic Session 2024-25.

The Academic Council considered and approved the scheme and syllabus (1st year) of BCA programme of Four-Year Degree Programme as per the NEP 2020 guidelines and UGC Curriculum & Credit Framework for Undergraduate programme (CCFUP) (Dec 2022), being run in Affiliated Institution of GGSIP University under the aegis of USIC&T w.e.f. the Academic Session 2024-25.

Agenda Item No. AC 57.42 : To consider and approve the start Post-Graduate Programme(s) of studies at the Master of Technology (M.Tech) level, pursuant to the AICTE endeavor to start new Programme(s) in emerging areas of technology in Affiliated Institutes of GGSIP University under aegis of USIC&T.

The Academic Council considered and approved to start the following Post-Graduate Programme(s) of studies at the Master of Technology (M.Tech) level, pursuant to the AICTE endeavor to start new Programme(s) in emerging areas of technology in Affiliated Institutes of GGSIP University under aegis of USIC&T:

1. Master of Technology - Computer Science and Engineering
2. Master of Technology - Information Technology
3. Master of Technology - Electronics and Communications Engineering
4. Master of Technology - Robotics and Automation

CS

Scheme of Examination
&
Syllabus
For
One year Post Graduate Diploma (Module I& II)
&
Two year MBA (Module I, II, III & IV)
In
Disaster Management (Weekend Program)
[w.e.f. Academic Session 2024-25 onwards]

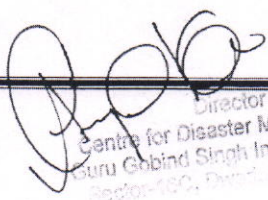


CENTRE OF EXCELLENCE IN DISASTER MANAGEMENT (CEDM)

Guru Gobind Singh Indraprastha University

Sector-16 C, Dwarka, New Delhi 110078

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Director CEDM
Centre for Disaster Management Studies
Guru Gobind Singh Indraprastha University
Sector-16C, Dwarka, New Delhi-110078

Vision

- To be the Leading Centre of Excellence for the Disaster Management Education and Research in the Country.

Mission

- To effectively prepare Manpower in the Core Area of Disaster Risk Reduction, Disaster Prevention, Disaster Response and Rehabilitation through Training and Capacity Building.

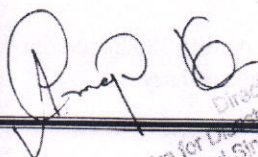
Program Outcome (PO):

The Students of Post Graduate Diploma and M.B.A. (Disaster Management) are expected:

- PO1:** To Understand Conceptual Knowledge with an Integrated Approach to various Functions of Disaster Management.
- PO2:** To Analyze and Apply Research and Analytical Skills in Decision Making During Disaster.
- PO3:** To Demonstrate the Skills of Organizing, Planning, Controlling, Team-Building and Leadership in the Challenging Environment of Disaster Management.
- PO4:** To Understand New Technologies in the Area of Disaster Risk Reduction, Disaster Prevention and Disaster Response and Rehabilitation etc.
- PO5:** To Build a Sustainable Disaster Management Plan.

Program Specific Outcomes (PSO):

- PSO1:** Acquire Practical Learning Opportunity through Industrial/Field Visits, Minor Project and Dissertation.
- PSO2:** Acquire In-Depth Knowledge in the Core Area of Disaster Risk Reduction to Solve the Complex Challenges in Disaster Situations.



Director CDMS
Centre for Disaster Management Studies
Guru Gobind Singh Indraprastha University
Sector-150, Dwarka, New Delhi-110077

Two Year MBA (Disaster Management)

Syllabus and Scheme

(Weekend Program) w.e.f. 2024 Batch Onwards

Module 1 (First Semester)		Credit Hours			Core/Ability Enhancement/ Inter-Disciplinary
		L	T	C	
MDM 101	Dimensions of Natural and Human Induced Disasters	3	1	4	Core
MDM 103	Laws, Governance and Institutional Framework for Disasters Management	3	1	4	Core
MDM 105	Fire Hazards, Safety and Risk Reduction	3	1	4	Ability Enhancement
MDM 107	Medical Preparedness, Public Health and Psycho-Social Care in Disaster Management	3	1	4	Inter-Disciplinary
MDM 109	Climate Change and Disaster Risk Reduction	3	1	4	Inter-Disciplinary
	Practical				
MDM 151	Field Visit to Disaster Sites/ Vulnerable Area/ Industries/ DM Centers and Presentation	0	0	4	Ability Enhancement
	Total		24		
Module 2 (Second Semester)					
MDM 102	Industrial Security and Safety Management	3	1	4	Core
MDM 104	Role of Information and Communication Technology in Disaster Management	3	1	4	Core
MDM 106	Community Based Disaster Management	3	1	4	Inter-Disciplinary+ Ability Enhancement
MDM 108	Supply Chain Management in Disaster	3	1	4	Core + Ability Enhancement
MDM 110	Incident Response System*	1	2	3	Inter-Disciplinary
MDM 112	Table Top and Mock Exercises*	0	0	3	Ability Enhancement
MDM 114	Minor Project Work and Presentation*	0	0	8	Core + Ability Enhancement
	Total		30		
	Total Credits (Module I + Module II)		54(24+30)		
Module 3 (Third Semester)					
MDM 201	Organizational Behaviour and Management	3	1	4	Core
MDM 203	Quantitative Techniques and Research Methodology in Disaster Management	3	1	4	Core + Ability Enhancement
MDM 205	Financial Aspects of Disaster, Risk Transfer and Business Continuity	3	1	4	Inter-Disciplinary
MDM 207	Geoinformatics and its Application in Disaster Management	3	1	4	Inter-Disciplinary
MDM 209	Cyber Security and Disaster Management	3	1	4	Inter-Disciplinary
	Electives (Any One)				
MDM 211	Fire and Life Safety Audit (Elective)	3	1	4	Core
MDM 213	Disaster Risk Reduction, Mitigation and Response (Elective)	3	1	4	Inter-Disciplinary
MDM 215	Entrepreneurship Development (Elective)	3	1	4	Core + Ability Enhancement
MDM 217	Environment Impact Assessment, Policies and PDNA in Disaster Risk Management (Elective)	3	1	4	Inter-Disciplinary
	Total		24		

[Signature]

Module 4 (Fourth Semester)					
MDM 202	Dissertation*	0	0	22	Ability Enhancement
MDM 204	Dissertation Presentation and Viva Voce*	0	0	8	Ability Enhancement
	Total			30	
	Total Credits (Module III + Module IV)			54 (24+30)	
	Total Credits of (Module I + Module II + Module III + Module IV)			108 (24+30+24+30)	

*Non-University Examination System

I. One Year PG Diploma in Disaster Management (Module I and II/ First and Second Semester)

- Module I and Module II (First Semester and Second Semester) is Equivalent to **One Year PG Diploma** in Disaster Management
- Total Credits Offered in First Semester + Second Semester = 54 (24+30)
Required Credits for Award of One Year PG Diploma = 50

II. Two Year MBA in Disaster Management (Module I, II, III and IV/ First, Second, Third and Fourth Semester)

- Module I (First Semester) + Module II (Second Semester) + Module III (Third Semester) + Module IV (Fourth Semester) is Equivalent to **Two Year MBA** in Disaster Management
- Total Credits Offered in First Semester + Second Semester + Third Semester + Fourth Semester = 108 (24+30+24+30)
Required Credits for Award of MBA in Disaster Management = 100

A. Eligibility Criteria:

- Graduate or Equivalent in any Subject with Minimum 50% Marks in Aggregate.
- At Least One Year Professional Experience.

B. Admission Criteria:

- Percentage of Marks Secured in The Qualifying Examination on a 100 Point Scale.
- One Marks each for an Additional Year of Relevant Experience put up to a Maximum of 15 Additional Marks.
- Personal Interview Marks on a 25 Point Scale.
- The Final Merit List Shall be Prepared on The Basis of Marks Earned by Each Candidate out of 140 Comprising Percentage of Marks Obtained in Eligibility Qualification, Experience and Marks Obtained in Personal Interview.

Total No. of Seats: 60

[Signature]

Director, CDMS
Centre for Disaster Management Studies
Guru Gobind Singh Indraprastha University
Sector-16C, Faridkot, Delhi-110062

MODULE I
(FIRST SEMESTER)

OF

Two Years MBA (Weekend Program)

In

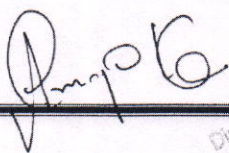
Disaster Management

CENTRE OF EXCELLENCE IN DISASTER MANAGEMENT (CEDM)

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GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
MBA – Disaster Management (Weekend Program)

Dimensions of Natural and Human Induced Disasters

Course Code: MDM 101

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand about Various Types of Disasters and Disaster Management Cycle.
CO 2: To Understand Causes Impacts and Mitigation Measure of Natural Disasters.
CO 3: To Understand Causes, Impacts and Mitigation Measures of Human induced Disasters.
CO4: To Understand National Disaster Management Guidelines.

Unit 1: Introduction of Disasters

Definition of Disaster, Types of Disasters: Natural and Human Induced Disasters, Disaster Management Cycle and Disaster Profile of India.

Unit 2: Natural Disasters

Causes, Impacts and Mitigation Measures: Earthquakes, Floods, Flash Floods, GLOF, Droughts, Landslides, Avalanches, Cloud Bursts, Lighting, Cyclone, Tsunami, Volcano, Hurricanes, Heat wave and Cold Wave.

Unit 3: Human Induced and other Disasters

Causes, Impacts and Mitigation Measures: Industrial Hazards, Urban Fires, Forest Fires, Coal Mine Fires, Oil Spills, Building Collapse and Stampede, Chemical, Biological, Radiological and Nuclear (CBRN) Disaster.

Unit 4: Guidelines

National Disaster Management Guidelines.

References:

1. Bocker, E. and Grondille, R.V. (1999). Environmental Physics, John Wiley and Sons Ltd.
2. Bohle, H. G., Downing, T. E. and Watts, M. J. (1994). Climate Change and Social Vulnerability: Toward a Sociology and Geography of Food Insecurity, Global Environmental Change, No.4, 37-48.
3. Dennen, W.H. and Moore, B.R. (1986). Geology and Engineering, WCB Publishers, Iowa.
4. Khanna, B. K. (2014). Perils of Under Wanted To Learn About Disasters, New India Publishing Agencies, New Delhi.
5. Murk, B. W., Skinner, B. J. and Porter, S.C. (1996). Environmental Geology. Wiley, New York.
6. Kaul, B. K. (2011). Environmental Hazards and Disaster – Contexts Perspectives and Management, John Wiley and Sons.
7. NDMA Guidelines on Disaster Management.
8. Roy, A. B. (2010). Fundamentals of Geology. Narosa Publishing House.
9. Wallace, J.M. and Hobbs, P.V. (1977). Atmospheric Science: An Introductory Survey, Academic Press, New York.

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GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

MBA – Disaster Management (Weekend Program)

Laws, Governance and Institutional Framework for Disasters Management

Course Code: MDM 103

L-3 T-1 C-4

Course Outcome

- CO 1:** This Course is aimed to provide Students an In-Depth Knowledge about the Various Humanitarian, Institutional and Legal Initiatives taken to Mitigate Disasters at Global, National and Local Level.
- CO 2:** This Course is aimed at promoting a Culture of Prevention, Preparedness and Resilience at all Levels through Knowledge, Innovation and Education.
- CO 3:** This Course is aimed at enabling the Students to Undertake Reconstruction as an Opportunity to Build Disaster Resilient Structures and Habitat for Ensuring Safer Living.
- CO 4:** This Course will enable Students to Understand Disaster Management Framework in Select Countries.

Unit 1: Disaster Management Framework in India

Constitution of India, Disaster Management Act 2005, National Disaster Management Authority (NDMA), Disaster Management Framework at National, State, District and Local Level, Constitution of DDMA's and Roles and Responsibilities, Prime Minister Agenda of 10 Points, National Platform for Disaster Risk Reduction (NPDRR), National Disaster Management Policy 2009, National Disaster Management Plan 2016, Section 135 of Company Act 2016 India- Corporate Social Responsibility, its Scope, Utility and Initiative taken for DRR, Human Rights and Humanitarian Laws.

Unit 2: International Framework for Disaster Management

International Initiatives by UN: UNDRR, Yokohama Strategy, Hyogo Framework for Disaster Risk Reduction (2005-2013), Sendai Framework (2013-2030), Sustainable Development Goals, COP21- Paris Agreement 2015 and COP28.

Unit 3: Role of National and International Agencies

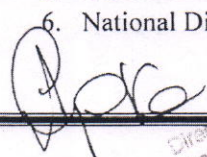
Armed Forces, CAPF and State Police, Medical Services, Civil Defense, Home Guards, NCC, NYK, NSS, Volunteers, Fire Services and National Red Cross Society etc., Role of UN Agencies: IFRC, FAO, WHO, SAARC, UNISDR and UNOCHA etc.

Unit 4: Disaster Management Framework in Select Countries

Institutional and Legal Framework in Certain Developed and Developing Countries, such as USA, Japan, South Africa and Bangladesh.

References:

1. Arnold, M. and Kreimer, A. (2000). Managing Disaster Risk in Emerging Economies, Disaster Risk Management, Series No. 2, World Bank, Washington, D. C.
2. Collins, L. R. and Schneid, T. D. (2000). Disaster Management and Preparedness, Taylor and Francis.
3. Disaster Management Act (2005).
4. Hyogo Framework for Action (2005-2015).
5. National Disaster Management Plan (2016).
6. National Disaster Management Policy (2009).


Centre for Disaster Management Studies
Guru Gobind Singh Indraprastha University
Sector 14, Rohtak, Haryana

7. Parasuraman, S. (2004). India Disasters Report: Towards A Policy Initiatives, Oxford University Press.
8. Sendai Framework for DRR (2015-2030). UNDRR.

APK

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
MBA – Disaster Management (Weekend Program)

Fire Hazards, Safety and Risk Reduction

Course Code: MDM 105

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand about Basics of Fire and Fire Safety Management.
CO 2: To Understand various types of Fire Safety Equipments and their Usage.
CO 3: To Understand Fire Emergency and Response.
CO 4: To Understand Fire Safety Guidelines along with Relevant Acts

Unit 1: Basics of Fire and Fire Safety

Basic Fire Science, General Provisions of Fire and Life Safety as per National Building Code of India, Categories of Building as per Occupancy, Fire Safety Rules and Building Evacuation Plans, Fire Prevention Methods and Techniques, Building Construction and Structural Fire Protection, Electric Hazard Shock and Protection, Fire Hazard and Protection in Special Risk Areas.

Unit 2: Types of Fire Fighting Equipment and Other Systems

Various Types of Fire Fighting Equipment (Pumps and Primers, Foam and Foam Making Equipment, Types of Hoses, Nozzles, Water Relay System), Personal Protective Equipment (PPE), Self-Contained Breathing Apparatus (SCBA), Safe means of Escape, Fire Signage, Fire Alarms and Fire Detection, Alternatives to Emergency Lighting, Portable Fire Extinguishers (Water, Foam, CO₂, ABC), Fixed Fire Installation, Fire Tenders, Automatic Sprinklers System, Provisions of Fire Safety Measures for LPG, CNG and PNG.

Unit 3: Fire Emergency and Response

Fire Emergency Response arrangements by Fire Services, Smoke Management System in Building, Peoples' Behaviour in Fire Emergencies, Search and Rescue Procedures, Extricating Trapped Personnel, Burn Victim and First Aid.

Unit 4: Fire Safety Guidelines and Relevant Acts

NDMA Guidelines of Scaling, Fire Safety and Prevention, Laws Related to Safety, Fire Service Acts, Explosive Act, Electricity Act and Petroleum Act, Cinematography Act/Rules, On-Site and Off-Site Emergency Plans.

References:

1. Decamp, W. and Herskovitz, K. (2015). The Theories of Accident Causes in Security Supervision and Management.
2. Fire Protection and Fire Safety Requirements, Ministry of Housing and Urban Affairs, Govt. of India; Website: <http://mohua.gov.in/upload/uploadfiles/files/chap-7.pdf>
3. Fire Service Features of Buildings and Fire Protection Systems (2015). Occupational Safety and Health Administration, U.S. Department of Labour.
4. Masellis, M. and Gunn S. W. A. (2016). The Management of Burns and Fire Disasters: Perspective, Kluwer Academy of Publishers.
5. National Building Code of India (2016).
6. National Disaster Management Guideline - Scaling, Type of Equipment and Training of Fire Services.
7. National Occupational Safety and Health (NOSH) Profile, Directorate General, Factory Advice Service and Labour Institutes (DGFASLI) in Collaboration with International Labour Organization (ILO).

Signature

Centre for Disaster Management Studies
Guru Gobind Singh Indraprastha University
Sector-14, Dwarka, New Delhi-110078

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
MBA – Disaster Management (Weekend Program)

Medical Preparedness, Public Health and Psycho-Social Care in Disaster Management

Course Code: MDM 107

L-3 T-1 C-4

Course Outcome

CO 1: To Understand the Public Health Consequences during Disasters.

CO 2: To Analyze Potential Effects of Health Emergencies and Response to avert these Effects.

CO 3: To Understand Management and Disposal of Dead Bodies.

CO 4: To Gain the Knowledge about Different Psycho-Social Needs in Emergency.

Unit 1: Public Health

Public Health and Disaster Management: Public Health System, Health Promotion and Disaster Prevention-Integrated Approach, Public Health Emergencies in Disasters, Epidemiology, Epidemiological Study of Disasters, Hospital Preparedness for Mass Casualties Management, Clinical Casualty Management, Management of Temporary Shelters, Water and Sanitation Emergencies, Public Health Policies and NDMA Guidelines on Hospital Safety.

Unit 2: Health Emergencies

Health Emergencies: Dengue, Food Poisoning, EBOLA, Avian Flu, Corona, Disaster and First-Aid, Critical Facilities, CPR, Transport of Wounded/Fractured Patient, Maintenance of Vitals, Principles of ABC and Defibrillators.

Unit 3: Management and Disposal of Dead Bodies

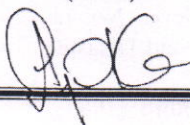
Management and Disposal of Dead Bodies and Carcasses: Infectious Disease, Risks, Body Recovery, Storage, Identification of Dead Bodies, Information Management, Long-Term Storage and Disposal of Dead Bodies, Communication and Support to Families and Relatives, Missing Person Form and Body Inventory Sheet.

Unit 4: Psycho-Social Needs

Socio-Psychological Needs in Emergency, Global Assessment, Psychological Characteristics of Disaster Management, Psychological First Aid, Emotional Stability and its Recoupment, Humanitarian Responses in Disaster Management, Psychological Rehabilitation, Dealing With Victim's Psychology, NDMA Guidelines on Psycho-Social Support.

References:

1. Carter, W. N. (2006). Disaster Management: A Disaster Manager's Handbook. Asian Development Bank, Manila, Philippines.
2. Horowitz, M. (1986). Stress Response Syndromes: A review of Post Traumatic and Adjustment Disorders. Hospital and Community Psychiatry, 37(3), 241-2249.
3. Hodgkinson, Peter E. and Stewart Michael (2006). Coping with Catastrophe, A Handbook of Post Disaster Psychological After Care. Routledge. Taylor and Francis.
4. Landesman, L. Y. (2005). Public Health Management of Disasters: The Practice Guide, American Public Health Association.
5. NDMA Guidelines on Mass Casualty Management and Hospital Preparedness (2006).
6. NDMA Guidelines on Hospital Safety (2017).
7. NDMA Guidelines on Management of Dead in the Aftermath of Disaster (2010).
8. NDMA Guidelines on Psycho-Social Support and Mental Health Services in Disasters (2009).



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MBA – Disaster Management (Weekend Program)

Climate Change and Disaster Risk Reduction

Course Code: MDM 109

L-3 T-1 C-4

Course Outcome

- CO 1: To Understand Climate Change and Climate related Hazards and Disasters.
- CO 2: To Understand the Climate Change Challenges and Opportunities.
- CO 3: To Understand about New Initiatives in Disaster Risk Reduction, Action Plans on Climate Change.
- CO 4: To Understand Adaptation Needs and Capacity Building for Disaster Risk Reduction.

Unit 1: Introduction to Climate Change- Science and Causes

Weather and Climate Change, Science of Climate Change and causes of Global Warming, Linkages between Climate Change and Climate Related Hazards/Disasters.

Unit 2: Climate Change and Its Impact

Climate Change Impacts on various Sectors, Identification of Vulnerable Sectors, Climate Change Challenges and Opportunities: Global and Indian Perspective.

Unit 3: Climate Initiatives

Concept of Sustainable Development- Burndtland Commission Report, Earth Summit, UNFCCC, Inter-Governmental Panel on Climate Change (IPCC), Kyoto Protocol, Paris Agreement, Sustainable Development Goals (SDGs), Sendai Framework on Disaster Risk Reduction (2015-2030), COP 28; National Action Plan on Climate Change, State Action Plan on Climate Change, India's Agenda for Climate Change Adaptation and DRR, Carbon Footprint.

Unit 4: Sectoral Adaptation Needs and Capacity Building for DRR

The need for Climate Change Adaptation, Sustainable Development Practices, New Initiatives in Disaster Risk Reduction, Capacity-Building, Training and Awareness, Disaster Management under Regional networks : SAARC, BIMSTEC and ASEAN etc.

References:

1. Ghosh, G. K., (2006). Disaster Management, 6th Edition, A.P.H. Publishing Corporation, New Delhi.
2. Khanna, B. K. (2016). Indian National Strategy for Climate Change, Adaptation, Mitigation and Vulnerability of Lakshdweep Coral Islands and Strategy for Managing Climate Change Impact, IGI Global, Hershey, PA, USA.
3. Le Treut, H., Somerville, R., Cubasch, U., Ding, Y., Mauritzen, C., Moksait, A., Peterson, T. and Prather, M. (2007). Historical Overview of Climate Change, Cambridge University Press.
4. National Action Plan on Climate Change, Government of India (2008).
5. National Disaster Management Plan (2016). A Publication of the National Disaster Management Authority, Government of India.
6. Sharma, V. K. (2013). Disaster Management, Scientific International.
7. Singh, S. (2012). Climate Change: Back to Basics, IIPA (Discussion Papers Series No. 7.
8. Suresh and Singh, S. (2017). Sustainable Future: Dynamics of Environment and Disaster Management, Concepts Publication House, New Delhi.
9. World Commission on Environment and Development: Our Common Future (1987). Oxford University Press.

Signature

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Field Visit to Disaster Sites/ Vulnerable Area/ Industries/ DM Centers and Presentation

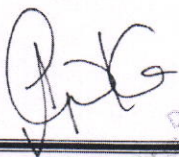
Course Code: MDM 151

L-0 T-0 C-4

Course Outcome

To Involve the Students for Field Visits of Different Disaster Sites or Vulnerable Areas for understanding the Ground Situation and the Real-Life Problems Faced by the People.

Field Visit to Disaster Sites/ Vulnerable Area/ Industries/ DM Centers and Presentation



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MODULE II
(SECOND SEMESTER)

OF

Two Years MBA (Weekend Program)

In

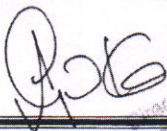
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MBA – Disaster Management (Weekend Program)

Industrial Security and Safety Management

Course Code: MDM 102

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand the Principles of Industrial Security, Industrial Risk Assessment and Crisis Management.
- CO 2:** To Understand Different types of Physical Security Measures, Building access control, Security personnel and Surveillance.
- CO 3:** To Understand the Statutory Provisions Related to Industrial Security and Safety.
- CO 4:** To Understand Emergency Protocols, Protective Measures and Security Threats in Industry.

Unit 1: Basics of Industrial Security

Principles of Industrial Security Management, Security Basics and Security Design, National Security Scenario and Threat Perception, Industrial Risk Assessment (Principles of Management in Industrial Risk/ Crisis Situation), Behavioural and Motivational Issues in Industrial Crisis Management and Security Operations Management.

Unit 2: Physical Security Measures

Physical Security Measures- Perimeter Barriers, Security Walls, Fencing Gates, Watch Towers; Buildings Access Control - Manual/ Electronic, Issue of ID Cards, Visitors Pass, Material Gate Pass, Security Lighting; Building Security- Locks and Key Management, Security of Parking Areas; Security Personnel, Selection, Training, Deployment, Motivation, Security Surveillance: CCTV, Intrusion, Detection, Use of Dogs, Security Gadgets and Security Control Room.

Unit 3: Rules, Regulations and Acts Related to Industrial Security

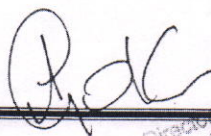
Industrial Security and Law, Relevant Sections of Indian Penal Code, Evidence Act, Private Security Agencies (Regulation) Act, Labour Act, Factory Act, Employees Standing Order Act, Explosives Act, Arms Act, Contract Labour Act, Minimum Wages Act, Laws of Contract, Official Secrets Act, ERDMP Regulations 2010, Safety Audits as per BIS 14489 (1998), HIRA 2006.

Unit 4: Emergency Management

Emergency Management Protocol, Anti Sabotage Check, Security Review and Up-Gradation, Kidnap and Hostage Situation, Bomb Threats and Search Procedures, Bomb Explosives and IEDs, Search Procedure, Executive Protection, Threat Perception and Special Protective Measures.

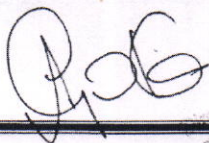
References:

1. Alexander, Y. (1976). International Terrorism: National, Regional and Global Perspective. AMS Press.
2. Canton, L. G. (2019). Emergency Management: Concepts and Strategies for Effective Programs. Wiley Publication.
3. Deshmukh, L. M. (2017). Industrial Safety Management, McGraw Hill Education.
4. Kumar, D. A. (2020). Principles of Industrial Safety Management: Understanding the Ws of Safety at Work. PHI Learning Pvt Ltd.
5. NDMA Guidelines on Management of Chemical Disasters (2007).



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6. Standards for Physical Security Management in Industry, (2015). National Police Academy, Hyderabad.
7. Subramanian, S. (2006). Industrial Security Management, Kalpaz Publications.



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MBA – Disaster Management (Weekend Program)

Role of Information and Communication Technology in Disaster Management

Course Code: MDM 104

L-3 T-1 C-4

Course Outcome

- CO 1:** To Learn Information and Communication Technology, Types and its Role in the Management of Disasters.
- CO 2:** To Understand Emergency Communication System in Disaster.
- CO 3:** To Understand the Importance of Early Warning and Forecasting Systems and Prediction Approaches for Different Natural Hazards.
- CO 4:** To Learn about the various Communication Methods in Disaster.

Unit 1: Information Technology and Communication Technology in Disaster

Introduction to Basic Computer System, Types of Operating System, Software Packages, Fundamentals of Data Communications and Computer Networks, Introduction to Cellular and Mobile Communication, 4G and 5G Communication, LTE Communication, Cyber Security and Role of Satellite-Based Navigation System.

Unit 2: Emergency Communication System in Disaster

Emergency Communication System: Introduction, Various Attributes, Technologies Supporting Disaster Management, Guidelines for National Disaster Management Information and Communication System, Mobile and Internet-Based Applications in Disaster Management, National Communication Plan and Emergency Operation Centres.

Unit 3: Early Warning System

Definition of Early Warning Systems, Community Early Warning Systems, Core Components of People Centric Early Warning System, Early Warning System through Wireless Communication, Bluetooth Wireless Technology, HAM Radio, GPS Application in Emergency Communication, Cyclone Warning System, Tsunami Warning Systems and Remote Sensing & GIS Application in Warning System.

Unit 4: Methods of Communication in Disaster Management

Various Communication Methods: Social Media, Mobile Apps, Smart Phones, Community Based Radio, Video Conferencing, SMS Burst on Mobiles for Alert and Early Warning, Damage Assessment on Mobile Phones, Crowd Sourcing Information in Emergency Response and Application of Drone Technology in Disaster Management.

References:

1. Effective Disaster Relief, Preparedness and Recovery via Centralized Data Collection and Management (2017). <https://www.dataentryoutsourced.com/blog/data-collection-management-during-disaster-relief/>
2. Electronic Communication Systems by Tomasi, 4th Edition (Pearson Education).
3. Forouzan, B. A. (2017). Data Communications and Networking. TMH.
4. Gagliardi and Robert, M. (1984). Satellite Communication, John Wiley.
5. Hec-Cheon, Yunjong-Bai, Kimkap-Yong and Jungmin-Gyu Kim (2012). Application of Disaster Information Systems for Disaster Management, Springer.
6. Kenedey, G., et al. (2011). Electronics Communication Systems, TMH.
7. Sinha, P.K. and Sinha Preeti (2004). Computer Fundamentals, BPB Publications.
8. Tagliacozzo, S., et al. (2016) Communicating with Communities (CWC) During Post-Disaster Reconstruction: An Initial Analysis, Natural Hazards, Springer.
9. Tomasi, W. (2008). Electronic Communication Systems, 6th Edition, Pearson Education.

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Community Based Disaster Management

Course Code: MDM 106

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand the Concept of Resilient Community, Risk and Vulnerability Assessment, Disaster Response and its Management.
- CO 2:** To Understand the Composition and Role of Disaster Response Teams.
- CO 3:** To Know the Mainstreaming of CBDP, Development Programs, Case Studies and NDMA Guidelines.
- CO 4:** To Understand the Formulation of Disaster Management Plans in various Sectors.

Unit 1: Resilient Community

Concepts of Resilient Community, Principles of CBDM, Hyogo Framework for CBDM, CBDP Sustainability, Community based Disaster Risk and Vulnerability Assessment: Mitigation and Allocation, Community based Resource Generation and Management, Community-Based Disaster Management Policy and Action Plan, Education, Communication and Dissemination, Women During Disasters and Gender Sensitive Disaster Management.

Unit 2: Disaster Response Teams

Disaster Response Teams at Community Level, Composition and Roles, Formulation of CBDM Plan and its Contents, Public Health Preparedness Team, Disaster Awareness Team, Warning and Information Dissemination Team, Disaster Response Groups, Evacuation Team, First-Aid Team(s), Search and Rescue Team(s), Village Security Team, Relief, Coordination, Shelter Management, Damage Assessment and Community Kitchen Management.

Unit 3: Mainstreaming of CBDP

Mainstreaming of CBDP, Importance and Benefits of Mainstreaming, Scaling Up of CBDP through Mainstreaming, Partnership at the Gram Panchayat (GP) and Urban (Municipal) Level, Embedded CBDP in Government Development Programs (Department wise schemes, action plans, and key steps), Sharing of Good Practices in Indian Context, Learning from Traditional Knowledge and Coping Mechanism.

Unit 4: Disaster Management Plans

Formulation of Family Disaster Management Plan, School and Educational Safety Disaster Management Plan, Office and Institutional Disaster Management Plan, Resident Welfare Associations and Housing Associations Plans, Disaster Management in Crowded and Religious Congregation, Disaster Management in Corporate Structures and Practices.

References:

1. Collins, L. R. (2000). Disaster Management and Preparedness. Taylor and Francis.
2. Family Disaster Planning, United States Search and Rescue Task Force. www.ussartf.org/family_disaster_planning.htm
3. Gupta, H. K. (2003). Disaster Management, Universities Press.
4. Khanna, B. K. and Khanna, N. (2011). Disasters; Strengthening Community Mitigation and Preparedness, New India Publishing Agency, New Delhi.
5. Living With Risk: A Global Review of Disaster Reduction Initiatives. (2007) UNDRR.

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Supply Chain Management in Disaster

Course Code: MDM 108

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand the Concept and Design of Disaster Supply Chain, Logistics.
CO 2: To Understand Supply Chain Decisions and Financial Aspects in Disaster Management.
CO 3: To Understand the Behavioural Aspect, Role of Leadership and Conflict Management.
CO 4: To Understand about Performance Measurement and International Benchmarks and Practices.

Unit 1: Supply Chain in Disaster

Introduction to Disaster Supply Chain, Difference between Supply Chain and Logistics, Flows associated with Supply Chain Management, International Supply Chain Management, Importance of Logistics and Supply Chain Management, Components and Design of Disaster Supply Chain.

Unit 2: Supply Chain and Decisions

Major Decision Related to Supply Chain: Facility Location, Site Selection, Methods of Site Selection; Inventory Management: Types of Inventory, EOQ Model, Inventory Control System, ABC, VED and FSN System, Transportation, Procurement and Financial Aspects.

Unit 3: Behavioural Aspect

Behavioural aspects of Supply Chain: Leadership Style, Characteristic of Leader, Factors Affecting Leadership Style, Motivation: Maslow's Need Hierarchy Theory, Herzberg Two Factor Theory, Bases of Power and Conflict Management in Supply Chain.

Unit 4: Performance Measurement

Performance Measurement: Metrics of Performance Measurement, Performance Measurement Framework, Methods of Performance Measurement, Performance Evaluation and Management; Benchmarking and International Practices.

References:

1. Bryman, A. (2003). Social Research Methods, Oxford University Press, UK.
2. Dangi, H. K. (2014). Disaster Management: Humanitarian Logistics in Relief Operations, Index International, India.
3. Harvard Business Essential (2004). Crises Management: Master the Skill to Prevent Disasters, Harvard Business School Press.
4. Kovacs and Spens (2011). Relief Supply Chain Management for Disaster, IGI Global.
5. Tomassini and Wassenhove (2009). Humanitarian Logistics, INSEAD Business Press.


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MBA – Disaster Management (Weekend Program)

Incident Response System*

Course Code: MDM 110

L-1 T-1 C-2

Course Outcome

- CO 1:** This Course will Enhance the Knowledge about Response of different Organizations to Disaster.
- CO 2:** The Course will Enhance the Knowledge about Facilities required during the period of Disaster.
- CO 3:** This Course will Enable an Organization to Quickly Detect and Halt Attacks, Minimizing damage and Preventing Future Attacks of the Same Type.

Unit 1

Model A: Principles and Features of Incident Response System
Model B: IRS Organization and Staffing

Unit 2

Model C – Incident Facilities
Model D – Response Management

Unit 3

Model E – Organising for Incident or Event
Model F – Incident and Event Planning

Unit 4

NDMA Guidelines on Incident Response System

References

1. NDMA Guidelines on Incident Response System: July 2010.

***Non University Examination System**



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Table Top and Mock Exercise

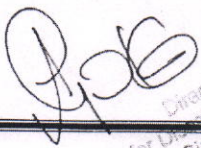
Course Code: MDM 112

L-0 T-0 C-2

Course Outcome

The Students will get hands on Experience during various emergency scenarios in Disaster Management.

Non University Examination System* (NUES)



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MBA – Disaster Management (Weekend Program)

Minor Project Work* and Presentation

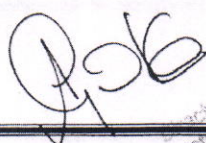
Course Code: MDM 114

L-0 T-0 C-6

Course Outcome

This Course involves Components for Preparation of Project Work and Presentation by concerned students on the Topics relevant to Disaster Management Theme Selected in Consultation with the concerned Supervisor.

Non University Examination System* (NUES)



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MODULE III
(THIRD SEMESTER)

OF

Two Years MBA (Weekend Program)

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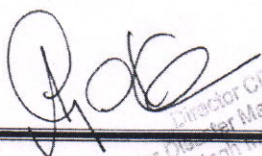
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MBA – Disaster Management (Weekend Program)

Organizational Behaviour and Management

Course Code: MDM 201

L-3 T-1 C-4

Course Outcome

- CO1:** To Understand Behaviour Science Approach and various Types of Management Theories.
- CO2:** To Understand Planning and Organizing Functions of Management.
- CO3:** To Study the Fundamentals of Organizational Behaviour, Design and Structure.
- CO4:** To Understand the Organizational Groups and their Dynamics, Work Teams, Leadership and Organizational Justice.

Unit 1: Management Theories and Approach

Behavior Science Approach, Contemporary Management Approach, Human Relation Management Theory and Management Science Theory.

Unit 2: Planning and Organizing

Planning: Organization Goal, Strategy, Standing use Plans and Single use Plan, Co-Ordinate and Integrate Resources; Organizing: Process, Principle, Authority and Responsibility, Organization Charts and Graphic Representation.

Unit 3: Fundamentals of Organizational Behaviour

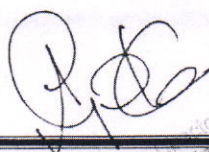
Fundamentals of Organizational Behaviour: Nature and Scope; OB Models: Merits and Demerits; Personality: Concept and Types, Perception and Attitude; Learning: Concept and Theories; Motivation: Definition, Importance and Theories; Managing Stress at Work: Concept and Techniques; Organizational Design and Structure: Concept and Types.

Unit 4: Groups and Work Teams

Group and their Dynamics: Concept and Types; Work Teams: Definition and Importance, Stages of Team Building and its Behavioural Dynamics; Leadership: Concepts, Importance and Styles; Organizational Justice: Concept, Importance and Types.

References:

1. Koontz, H. (2015). Essentials of Management – An International Innovation Leadership Perspective, Mcgraw Hill.
2. Nahavandi, A. (2015). Organizational Behavior. SAGE Publications, Inc.
3. Newstorm, J. W. (1986). Organizational Behavioral Human Behavior at Work, Mcgraw Hill Education.
4. Robbins, J. (2019). Organizational Behavior. Pearson India Education Services Pvt. Ltd.
5. Stoner, J. A. F. and Freeman, R. E. (2018). Management. Pearson India Education Services Pvt. Ltd.



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Quantitative Techniques and Research Methodology in Disaster Management

Course Code: MDM 203

L-3 T-1 C-4

Course Outcome

- CO 1:** To Know about the Research Methods, Terminology, Types, and Identification of Research Problem, Research Question and Hypothesis Formulation.
- CO2:** To Understand the different Measurement Scales, Sampling size and various Techniques for Research.
- CO 3:** To Enhance the Skills of Student for Research Data Presentation.
- CO 4:** To Understand the various Hypothesis Testing and Construct Statistical Models to explain the findings of the Research.

Unit 1: Introduction to Research Methods

Introduction to Research Methods, Terminology used in Research, Types, Research Philosophies, Research Problem, Characteristics of Research, Major Types of Research Design, Research Approaches, Research Questions & Hypothesis Formulation and Report Writing.

Unit 2: Measurement Scales

Scale of Measurement: Nominal, Ordinal, Interval and Ratio, Comparative and Non-Comparative Scaling Technique, Reliability and Validity of Scale; Questionnaire Design: Objectives, Steps, Pilot Testing and Sampling Decision, Probability and Non- Probability Sampling techniques and Sample size.

Unit 3: Data Presentation

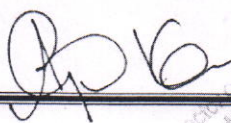
Introduction to Quantitative Techniques, Frequency Distribution and Graphical Presentation of Data, Measures of Central Tendency and Dispersion.

Unit 4: Quantitative Techniques

Hypothesis Testing, Steps of Conducting Hypothesis Testing, Parametric and Non-Parametric Test Like Z, T, F -Test and Chi Square Test, ANOVA; Correlation: Pearson, Spearman and Kendall's; Regression: Assumption and Application.

References:

1. Bryman, A. (2003). Social Research Methods Oxford University Press, UK.
2. Dangi, H. K. and Dewen, S. (2016). Business Research Methods. Cengage India Limited, New Delhi.
3. De Vaus, D. A. (1995). Surveys in Social Research. Allen and Unwin, Sydney, Australia.
4. Foddy, W. (1994). Constructing Questions for Interviews and Questionnaires. Cambridge University Press, Cambridge.
5. Scarbrough, E. and Tanenbaum E. (1998). Research Strategies in the Social Sciences. Oxford University Press. Oxford.
6. Singleton. R.A. Jr, and Straits B. C. (1999). Approaches to Social Research. Oxford University Press, New York.
7. Stallings, R. A. (2013). Methods of Disaster Research. Xlibris Publication Limited.



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Financial Aspects of Disaster, Risk Transfer and Business Continuity

Course Code: MDM 205

L-3 T-1 C-4

Course Outcome

- CO1:** To Understand the Conceptual Framework of Financial Aspect of Disaster Management, Mitigation Plans and Funding Arrangements.
- CO2:** To Understand the Institutional Innovative Techniques of Investment Patterns for Minimization of the Financial Risks.
- CO3:** To Understand the various Economic Aspects during Disasters at Macro Level.
- CO4:** To Understand the Importance of Micro financing and its Role in Disaster Management.

Unit 1: Conceptual Framework of Financial Aspects of Disaster Management

Requirement and Arrangement of Finance, National Disaster Response and Mitigation Fund, State and District level funding Arrangements, Internal and External Aid, Responsibilities of Central Ministries and Departments, Financial Guidelines for Formation of Mitigation Plans, Promoting Immediate Mitigation, Measuring and Funding of Rehabilitation.

Unit 2: Risk Reduction Activities

Risk-Spreading, Transfer Mechanism and Insurance, Weather Derivatives in Capital Market, Appropriate Investment in Risk Reduction, Role of Institutional Innovations, Technological Improvements and Economic Resilience, Hazard Information & Preparedness and Catastrophic Insurance Pool.

Unit 3: Introduction to Macro-Economic

Economic Structure: Fiscal Response to Public Finance and Budgetary Guidelines, Economic Management of Risk in Medium and Long Term Planning for Reallocation of Resources, National Investment Policy and Socio- Economic Adaptation.

Unit 4: Micro financing

Microfinance Concept and Products, Impact of Natural Disasters on Micro financing Institutions, Micro financing for DRR and Relief, Role of Self-Help Groups, Collaboration between Micro financing Institution and Disaster Management Authorities, Case studies.

References:

1. Andersen, J. V. (2002). Risk Transfer Mechanisms – Converging Insurance, Credit and Financial Markets, Organization of Economic Corporation and Development (OECD), Paris.
2. Benson, C. and Clay, E. (2004). Understanding the Economic and Financial Impacts of Natural Disasters, The World Bank.
3. Finance for the Poor: Micro-Finances Development Strategy, Asian Development Bank Publication, Manila (2000).
4. Microfinance and Disaster Management, Stuart Mathison (2003). The Foundation for Development Cooperation.
5. National Disaster Management Plan (2016).
6. National Disaster Management Policy (2009).

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MBA – Disaster Management (Weekend Program)

Geoinformatics and its Application in Disaster Management

Course Code: MDM 207

L-3 T-1 C-4

Course Outcome

- CO 1:** To Learn about basics, Principles and Types of Remote Sensing.
CO 2: To Learn basic Principles and Components of GIS and Data Processing.
CO 3: To Learn basics of GPS, Topographical Maps and Drone.
CO 4: To Learn various Applications of the Remote Sensing and Geographic Information System in Disaster Management.

Unit 1: Introduction to Remote Sensing (RS)

Definition, Basics, Principles and Types of Remote Sensing, Electromagnetic Spectrum, History of Remote Sensing, Resolution Types, EMR Interaction, Spectral Signatures, Platform and Sensors, Global and Indian Satellite Missions, Digital Image Processing (DIP) Techniques, Visual Image Interpretation Strategies, Tools and Techniques.

Unit 2: Geographic Information System (GIS)

Basic Principles and Components of GIS, Spatial Information and Spatial Data Types, Geographic Phenomena, Geographic Field, Geographic Objects and Boundaries, Data Processing, Raster-Based, Vector-Based GIS, Topology, Spatial Relations and Analysis.

Unit 3: Basic of Global Positioning Systems (GPS), Topology and Drone

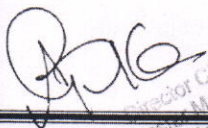
Basic of GPS, Functions and Positioning Services, Map Projection and Coordinate System, Types of Survey of India (SOI), Topographical Maps, Numbering Systems and Interpretation of SOI Topographical Maps, Basics of Drone.

Unit 4: Application of RS/ GIS and Drone Technology in Disaster Management

Application of Geospatial and Drone Technology in Disaster Management.

References:

1. Janssen, Lucas L. F. and Grrit C.H. (2001). Principle of Remote Sensing. ITC Educational Text Book Series 2. International Institute of Geoinformation Science and Earth Observation (ITC). Enschede, The Netherlands.
2. Jensen, J.R. (2004). Introductory Digital Image Processing: A Remote Sensing Perspective. Prentice Hall, New York.
3. Jensen, J.R. (2009). Remote Sensing of the Environment: An Earth Resource Perspective, 2nd Edition. Dorling Kindersley India Pvt. Ltd.
4. Joseph and George. (2005). Fundamentals of Remote Sensing, 2nd Edition. University Press India.
5. Thomas, M. L., and Ralph, W. K. (1999). Remote Sensing and Image Interpretation. John Wiley and Sons.
6. Lo, C.P. and Yeung, A. K. W. (2009). Concepts and Techniques of Geographic Information Systems, 2nd Edition. Pearson Education.



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Cyber Security and Disaster Management

Course Code: MDM 209

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand Basic Risk, Issues and Legal Provisions of Cyber Security.
CO 2: To Understand Threats, Concerns and Counter Measures of Cyber Terrorism.
CO 3: To Understand the Critical Issues of IT, Risk Analysis, Network Security Issues and Security Management.
CO 4: To Understand the Cyber Incident Plan(s) Management and New Initiatives in Cyber Security.

Unit 1: Basics of Cyber Security

Cyber Security and Information Warfare: Definition, Causes of Increased Cyber Crime; Institutional Framework for Detecting Cyber Crimes and Its Relevant Provisions and Information Technology Act.

Unit 2: Threat and Counter Measures of Cyber Terrorism

Concept of Information Society, Critical Infrastructure, Computer and Intranet Security, Types of Cyber Crimes, Business Risk, Infrastructural Attack, Cyber Terrorism; Tools and Techniques of a Cyber Terrorist, Potential Targets and Threats of Cyber Terrorist, Counter Measures, Preventive and Deterrence, International Cyber Terrorism, Threats, Concerns and Counter Measures.

Unit 3: Critical Security Issues of IT, Application Development and Security Management

IT Audit/ Review: Critical Security Issues, Identifying Potential Security Risks, Risk Analysis; Network Security Issues: LANs, WANs, MANs, PANs; Firewalls, Routers, Internet/ Extranet Security; Application Development Risks, Data Mining, Business Intelligence: Associated Risks and Concerns, Data Quality Issues: Detecting, Controlling and Mitigation of Frauds, IT Security as a Part of Corporate Governance and Security Management Best Practices.

Unit 4: Cyber Incident Management and New Initiatives

Control Considerations in an automated office Environment, Developing and Exercising Incident Management Plans and Initiatives of Indian Government towards Cyber Security like Cyber Emergency Response Team (CERT).

References

1. Alexander, Y. and Swetman, M. S. (2001). Cyber Terrorism and Information Warfare: Threats and Responses. Transnational Publisher, US.
2. Carr, J. (2011). Inside Cyber Warfare. O' Reilly Media Publications.
3. Janczewski, L. and Colarik, A. M. (2005) Managerial Guide for Handling Cyber Terrorism and Information Warfare. Idea Group Publishing (IGP).
4. Kahate, A. (2004). "Cryptography and Network Security", Tata McGraw Hill.
5. Michael, T. G. and Tamassia R. (2010) "Introduction to Computer Security", Addison Wesley.
6. Singh, A. (2023). Introduction to Cybersecurity: Concepts, Principles, Technologies and Practices, Universities Press.
7. Stallings, W. (2011). "Cryptography and Network Security: Principles and Practice" (5th Edition), Pearson.

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Elective (Any One)
(THIRD SEMESTER)

OF

Two Years MBA (Weekend Program)

In

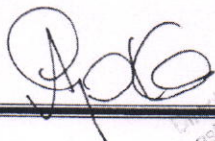
Disaster Management

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GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
MBA – Disaster Management (Weekend Program)

Fire and Life Safety Audit (Elective)

Course Code: MDM 211

L-3 T-1 C-4

Course Outcome:

- CO 1:** To Understand Concept of Fire Safety, Classification of Fire, Types of Building Construction and Classification of Occupancy as per NBC 2016.
- CO2:** To Understand the Importance of Life Safety and Various Evacuation Plans in Case of Fire Disasters.
- CO 3:** To Understand about various Fire Protection Systems, Special Provisions of Fire Protection System of High Rise Building, Smoke Exhaust and Pressurization of Area.
- CO 4:** To Understand about the Codes and Standards Related to Fire Safety and Risk Assessment.

Unit 1: Basics of Fire and Fire Safety

Concept of Fire Safety, Classification of Fire, Sources of Ignition, Products of Combustion, Classification of Occupancy as per NBC-2016, Fire Resistance and Building Materials, Interior Surface Finishes, Types of Building Construction and Risk Based Building Construction.

Unit 2: Basics of Life Safety and Evacuation Plans

Concept of Life Safety, Occupancy wise Life Safety Requirements, Compartmentation, Fire Barriers, High Rise Buildings, Evacuation Plans, Types of Exits, Horizontal Exits, Fire Detection and Alarms, Public Address Systems.

Unit 3: Fire Protection System

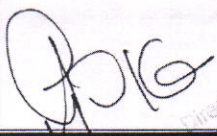
Fundamental Requirements of Fire Protection System, Minimum Requirements Based on Building Occupancy Classifications, Fire Fighting Systems, Special Provisions of Fire Protections for High Rise Buildings: Heating, Ventilation, Air-Conditioning and Refrigeration Systems, Smoke Exhaust and Pressurization of Areas above and below Grounds, Atrium Ventilation and Emergency Lighting.

Unit 4: Codes and Standards Related to Fire Safety and Risk Assessment

Indian Buildings Codes and Standards, State Fire Service Acts, Fire Safety Risk Assessments and Concept of Building Services Design.

References:

1. Delhi Fire Service Act – 2007 and Rules 2010.
2. Fire Safety Management Audit, Specification (2017). British Safety Council.
3. Fire Service Operations (Fire Service Manual, Vol. 2, U.K.).
4. Fire Service Technology (Fire Service Manual, Vol. 1, U.K.).
5. Guidelines for Auditing Management System, ISO 19011, International Standard Organization.
6. National Building Code of India (Part-IV) (2016).
7. Unified Building By Laws, Delhi (2016).



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GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
MBA – Disaster Management (Weekend Program)

Disaster Risk Reduction, Mitigation and Response (Elective)

Course Code: MDM 213

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand the Concept of Hazard, Vulnerability and Risk.
CO 2: To Understand the Concept of Disaster Mitigation, Measures, Seismic Performance Examination of Buildings and BIS Codes.
CO 3: To Understand the Concept of Preparedness, Response, Different Aspects of Relief, Funding, Psychological Response and Management.
CO 4: To Understand the concept of HVRC and vulnerability assessment.

Unit 1: Basic Concepts of Disaster Risk Reduction

Concept and Correlation between Hazard, Vulnerability and Risk, Types and Causes of Vulnerability and Risk, Disaster Risk Reduction (DRR), Risk Assessment, Cost Benefit Analysis, Risk Management Component, Strategy for Risk Reduction.

Unit 2: Disaster Mitigation

Concept of Disaster Mitigation, Significance, Structural and Non-Structural Measures, Seismic Performance Examination Of Reinforced Cement Concrete (RCC) Buildings, Retrofitting, BIS Codes, Tools and Techniques of Various Disaster Preparedness.

Unit 3: Concept of Preparedness, Response and Relief

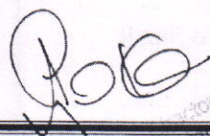
Concept of Preparedness, Response and Relief: Pre, During and Post Disaster; Need and Funding for Response and Relief Plans at Various Levels, Different Aspects of Relief: Shelter, Water, Food Material and Medicine; Debris Management, Emergency Supplies, Emergency Communication; Search and Rescue, Evacuation, Psychological Response (Trauma, Stress, Rumor and Panic) and Management.

Unit 4: Hazard Risk, Vulnerability and Capacity (HVRC) Assessment

Concept of HVRC Assessment, Identifying Risk Indicators, Quantification of Risk and Vulnerability, Assessment of Vulnerability (Physical, Economic, Environmental and Social).

References:

1. Disaster Management, Asian Disaster Preparedness Centre, Website: <http://www.adpc.net/casita/course-materials/mod-4-disaster-mgmt.pdf>
2. Hodgkinson, P. K. and Stewart, M. (1998). Copying With Catastrophe, A Handbook of Post Disaster Psychological After Care. Routledge, Taylor and Francis.
3. Twigg, J. (2004). Good Practice Review; Disaster Risk Reduction Mitigation and Preparedness in Development and Emergency Programming; Humanitarian Practice Network (HPN), U.K.
4. The Bureau of Indian Standards Code (2016).



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MBA – Disaster Management (Weekend Program)

Entrepreneurship Development (Elective)

Course Code: MDM 215

L-3 T-1 C-4

Course Outcomes

- CO1:** To Understand Entrepreneurship, Economic Development, Types of Entrepreneurs, and their Qualities at various Levels.
- CO2:** To Understand identification of Business Activities, Feasibility and Opportunities for Formulation of Business Plans.
- CO3:** To Understand various Steps of Enterprise Launching Formalities, SME Registration and Role of SMEs in Economic Development.
- CO4:** To Understand the Role of Support Institutions in the functioning of Small Organizations.

Unit 1: Basics of Entrepreneurship

Entrepreneurship: Concept And Definitions, Entrepreneurship and Economic Development, Factor affecting Entrepreneurial Growth: Economic, Non-Economic Factors, Classification and Types of Entrepreneurs, Entrepreneurial Competencies, Entrepreneurship Development Program (EDP), Entrepreneurial Training, Traits/Qualities of an Entrepreneur, Manager Vs. Entrepreneur, Entrepreneur Vs. Entrepreneurship, Entrepreneur Vs. Administrator.

Unit 2: Identification of Feasibility(s) and Scope of Opportunity

Entrepreneurial Opportunity, Search and Identification, Sources of Information, Criteria to Select a Product, Conducting Feasibility Studies: Marketing Feasibility, Technical Feasibility, Finance Feasibility and HR Feasibility etc; Business Plan Formulation: Format of Business Plan, Project Report Preparation and Specimen of Project Report.

Unit 3: Enterprise Launching Formalities

Enterprise Launching Formalities; Definition of Small Scale as per MSMED Act, 2006, Rationale, Objective, Scope, Steps Involved in Starting Enterprise, SME Registration; NOC From Pollution Board, Machinery and Equipment Selection, Role of SME in Economic Development of India, Project Planning and Scheduling using Networking Techniques of PERT/CPM, Methods of Project Appraisal.

Unit 4: Role of Support Institutions in the Functioning of Organization

Role of Support Institutions and Management of Small Business, DIC, DCMSME, SIDBI, Small Industries Development Corporation (SIDC), MSME (D-1), NSIC, NISBUED, State Financial Corporation (SFC); Functional Areas Application for small Enterprises Like Marketing Issues, Production Management Issues, Finance Management Issues, Human Resource Management Issues, Export Marketing.

References:

1. Charantimath, P. M. (2013). Entrepreneurship Development and Small Business Enterprise, Pearson Education.
2. Kuratko, D. F., Frederick, H. and Hodgetts R. M. (2007). Entrepreneurship: Theory, Process and Practice, South Western Publication.
3. Hold, D. H. (2016). Entrepreneurship New Venture Creation, Pearson Education.
4. Scarborough, N. M. and Cornwall J. R. (2016). Essential of Entrepreneurship and Small Business Management, Pearson Education.
5. Taing, K. (2014). Entrepreneurship Theory and Practice, Anmol Publication Pvt. Ltd., Delhi.

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MBA – Disaster Management (Weekend Program)

Environment Impact Assessment, Environmental Policies and PDNA in Disaster Risk Management

Course Code: MDM 217

L-3 T-1 C-4

Course Outcome

- CO 1:** To Understand about the Concepts, Purpose, Components of EIA and Environmental Base Line Study.
- CO 2:** To Understand the Environmental Impact Assessment Procedure and Role of Public Participation.
- CO 3:** To Understand about various Environment Legislations and Policies.
- CO 4:** To Understand about Post Disaster Needs Assessment, Impact Measurement and Disaster Recovery Framework.

Unit 1: Basics of Environment Impact Assessment

Introduction to EIA, Purpose of EIA, Environmental Components, Projects and its Environmental Impact Statement, Project Screening, Project Scoping and Environmental Baseline Study.

Unit 2: Environmental Impact Assessment Procedure

Impact Assessment Procedure, Applications of Matrices, Networks and Overlay Maps, Environmental Evaluation System: Impact Identification, Prediction, Evaluation, Monitoring, Mitigation & Environmental Auditing; Cost Benefit Analysis and its Dimensions; Environmental Management Plan, Public Participation in Environmental Decision Making, Review and EIA Report.

Unit 3: Statutory Provisions Related To Environment

Environmental Legislation and Policies, Important Legislations Related to Environment: The Water (Prevention and Control Of Pollution) Act 1974, Prevention and Control of Air Pollution Act 1981, Forest Conservation Act 1981, Environment (Protection) Act 1986, Disaster Management Act 2005, The Solid Waste Management Rules 2016, Coastal Zone Management Act 2009 and Disaster Management Policy 2009.

Unit 4: Post Disaster Need Assessment

Post Disaster Needs Assessment (PDNA), Conceptual Framework Of PDNA, Impact Measurement at Community Level, Measured Effects on Infrastructure and Assets, Estimate Disasters Based on Emerging Risks and Vulnerabilities, Development of Disaster Recovery Framework, Damage and Loss Assessment Tools.

References:

1. Anjanvelu, Y. (2007). Environmental Impact Assessment Methodologies, B. S. Publications,
2. Canter, L. W. (1996). Environment Impact Assessment. McGraw-Hill.
3. Eccleston, C. H. (2011). Environmental Impact Assessment, Taylor & Francis.
4. Glasson, J., Therivel, R. and Chadwick, A. (1999). Introduction to Environmental Impact Assessment, 2nd edition, UCL Press, Philadelphia, USA.
5. Lawrence, D. P. (2003). Environmental Impact Assessment: Practical Solutions to Recurrent Problems, John Wiley and Sons.
6. Wathem, P. (2013). Environmental Impact Assessment: Theory and Practice, Taylor & Francis.
7. Ganpat, W. and Wendy, A. I. (2016). Environmental Sustainability and Climate Change Adaptation Strategies, IGI Global Hershey, PA, USA.

MODULE IV
(FOURTH SEMESTER)

OF

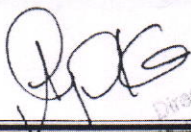
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MBA – Disaster Management (Weekend Program)

Dissertation*

Course Code: MDM 202

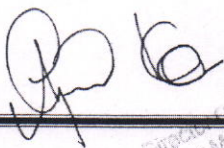
L-0 T-0C-22

Course Outcome

To Prepare a Dissertation on the Disaster Management related Topics in Consultation with the Allotted Supervisor.

Student will submit a Dissertation Report in the Fourth Semester in a Specified Format to the Centre of Excellence in Disaster Management for Evaluation Purpose.

Non University Examination System*



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MBA – Disaster Management (Weekend Program)

Dissertation Presentation and Viva Voce*

Course Code: MDM 204

L-0 T-0 C-8

Course Outcome

To Evaluate the Understanding of students through their Presentation and Viva-Voce. Students are required to give Presentation and Viva-Voce after the submission of Dissertation.

Non University Examination System*