

JHARKHAND RAKSHA SHAKTI UNIVERSITY, RANCHI



M.A./M.Sc. Programme in Public Safety and Disaster Management

Detailed Syllabi

(w.e.f. Academic Year 2026-27)

DEPARTMENT OF PUBLIC SAFETY & DISASTER MANAGEMENT

[Duration: Two Year]

Course Structure

MA/M.Sc. - Public Safety and Disaster Management (MPSDM) (2-Year Program)

CREDIT DISTRIBUTION IN FOUR SEMESTERS

(80 CREDITS IN TOTAL)

SEMESTER 1

Summarized Credits for the M.A. /M.Sc. – Semester 1										
Course Code	Course	Full Mark	Mid Semester		End Semester		Teaching Scheme			Hour
			FM	PM	FM	PM	Credit	TH	PR	
MPSDM - 101	Introduction of Disaster Management	100	30	13	70	32	4	4	0	60
MPSDM - 102	Disaster Governance Frameworks	100	30	13	70	32	4	4	0	60
MPSDM - 103	Research Methodology - I	100	30	13	70	32	4	4	0	60
MPSDM - 104	Information Communication Technology in Disaster and Development	100	30	13	70	32	4	2	2	90
MPSDM - 105	Traditional – Indigenous Knowledge and Disaster Risk Reduction	100	30	13	70	32	2	2	0	30
MPSDM - 106	Field Work	100	-	-	100	40	2	0	2	60
TOTAL		600					20			360

Skill Enhancement Paper: MDMS-104, Value Addition Paper: MDMS-105

FM: Full Marks, PM: Pass Marks, TH: Theory, PR: Practical

YEAR 1**SEMESTER I: PAPER- 1**

Course Title	Introduction of Disaster Management		
Course Code	MPSDM - 101	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide the foundational understanding on disaster management with the introductory concepts and principles. Learners will be equipped with knowledge to comprehend the DM cycle, understand types and nature of hazard, vulnerability and risk.			
Course Outcomes			
After the successful completion of the course, students will be able to:			
➤ Understand the fundamental principles of hazard, vulnerability, risk and capacities.			
➤ Identify hazard, vulnerability, risk and capacities at individuals, institutional and community level.			
➤ Assess HRVC of a geographical area.			
➤ Analyse the impact of disasters on environment and society, disaster vulnerabilities and risk in the communities.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Introduction of Disaster Management		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introductory Concept of Disaster Management Key Terminologies of Hazard, Vulnerability, Risk, Exposure, Coping Capacity, Resilience, Disaster, Emergencies; Disaster Management – DM Cycle – Phases of Disaster, Prevention, Preparedness, Mitigation, Response and Recovery. Concept of DRR & DRM, Methods of Hazard, Vulnerability and Capacity Assessment (HVCA), Components of Disaster Relief – Food, Water, Health, Shelter, Sanitation and Waste Management; Hazard and Vulnerability profile of India– Regional Hazard, Risk and Vulnerability, Recent Development and Paradigms.	15
Unit- 2	Natural Hazards Classification, Cause and Impact of Natural Hazards; Geological Hazards – Earthquake, Volcano Eruption, Avalanches, Landslide, Subsidence; Hydrological Hazards – Floods, Glacial Lake Outburst Flood; Meteorological and Climatic Hazards – Cyclone, Tsunami, Extreme Weather Events, Droughts, Lightning, Forest Fire, Snakebite; Biological Hazard – Pandemic, Epidemic, Insect Infestation, Animal Stampede; Case studies of Natural Hazards.	15
Unit- 3	Anthropogenic Hazards Classification, Cause and Impact of Anthropogenic Hazards – Chemical, Biological, Radiological and Nuclear (CBRN) Hazards; Socio-Political hazards – Civil disorder, Conflict, Riots, Massacre, Genocide, Terrorist attack, Bomb Blast, Naxalism War; Technological/Industrial Hazards – Building Fire, Mine fire, Chemical and Oil Spill Explosion, Engineering failure; Transportational Hazards – Rail Accident, Road Accident, Aircraft Accidents, Boat Capsizing; Pollution – Air, Water, Industrial, Biomedical, Environmental Pollution; Human Hazard – Stampede, Poisoning, Famine; Case studies of Manmade Hazards.	15

Unit- 4	Concepts of Hazard, Risk Vulnerability & Capacity (HRVC) Analysis Concept of Hazard, Vulnerability & Capacity – Exposure, Sensitivity and Adaptive Capacity, Elements of Vulnerability (Social, Physical, Economic and Environmental Vulnerability), Vulnerability Identification and Assessment. Concept of Risk – Element of Risk, Types of Risk (Adaptive, Routine, Participatory Risk etc), Risk Assessment and its Processes – Risk Reduction Strategies. Disaster Impact Assessment- Landscape planning.	15
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Suggested Readings:

- Goyal, Pradeep K. and Gupta, Anil K. (2023). Disaster Management. AICTE
- Kumar, P. (2023). Disaster Management: Preparedness, Response, Recovery, Mitigation. OakBridge
- Pandey, Mrinalini. (2023). Disaster Management. Wiley Publication. Second edition
- Pal, Indrajit and Shaw, Rajib. (2018). Disaster Risk Governance in India and Cross Cutting Issues. Springer Publication
- Parasuraman S, and Unnikrishnan P.V. Disaster Response in India: An Overview
- Paul, Bimal Kanti. (2011). Environmental Hazards and Disasters: Context, Perspectives and Management. Wiley-Blackwell Publication
- Eslamian, Saeid and Eslamian, Faezeh. (2022). Handbook of Disaster Risk Reduction for Resilience: New Framework for Building Resilience to Disaster. Springer Publication

Note: Latest edition of text books may be used.

YEAR 1**SEMESTER I: PAPER- 2**

Course Title	Disaster Governance Framework		
Course Code	MPSDM - 102	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide comprehensive understanding of disaster governance frameworks at local, national and global level. Learners will be equipped with governance structure, legal frameworks and institutional mechanism in disaster management. This will prepare learners to critically assess the existing frameworks and develop understanding on the key stakeholders in disaster governance system.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the institutional mechanisms from local to global levels.			
➤ Analyse the policies and plans related to disaster management.			
➤ Develop skills to coordinate with government agencies, NGOs, and communities for comprehensive disaster management.			
➤ Outline the institutional framework of DRR at various level.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Disaster Governance Framework		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Disaster Management Governance Framework Disaster Management Act 2005 and its Amendments, State-specific Acts, National Policy on Disaster Management, National Disaster Management Plan, State Disaster Management Plan (SDMPs), District Disaster Management Plan (DDMPs), Prime Minister Ten-point Agenda for Disaster Risk Reduction. International instruments – Sendai Framework for DRR (2015-30), Hyogo Framework for Action (2005-15), Yokohama Strategy, Sustainable Development Goals (SDGs), Intergovernmental Panel on Climate Change (IPCC), Paris Agreement, Sphere Humanitarian Standards, Core Humanitarian Standards, The Core Humanitarian Standards on Quality and Accountability, Minimum Economic Recovery Standards, The Livestock Emergency Guidelines and Standards, DRR related Guidelines by NDMA and other Institutions.	15
Unit- 2	Administrative Structure National Disaster Management Authority (NDMA), National Institute of Disaster Management (NIDM), State Disaster Management Authority (SDMA), District Disaster Management Authority (DDMA), National Disaster Response Force (NDRF), State Disaster Response Force (SDRF), Urban Local Bodies, Urban Disaster Management Authority (UDMA), Panchayati Raj Institution (PRI), Scheduled V & Scheduled VI Area, Village Development Programs and other Line Departments.	15
Unit- 3	Incident Response System (IRS) Response Mechanism– Evolution and Concept of IRS, Principles, Feature and Importance of IRS in Disaster Response, Organizational Structure and Function of IRS, Standard Operating Procedures (SOPs) in Disaster Response, Rapid Damage and Need Assessment (RDNA), Onsite and Off-site Incident Response Plan, Documentation and Reporting Systems. Case studies.	15

Unit- 4	Disaster Financial Management Concept, Scope, Importance of Financial Management in DRR, Finance Commissions in Disaster Management, Concept of Disaster Financing, Disaster Risk Transfer Approach, Disaster Relief/Compensation, Disaster Response Fund at Centre and State Levels, Financial Aid and Donation Insurance-based Financial Recovery Approach.	15
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Suggested Readings:

- Pal, Indrajit and Shaw, Rajib, (2023). Disaster Risk Governance in India and Cross Cutting Issues. Springer Publication
- Disaster Management in India. Ministry of Home Affairs, Government of India
- Disaster Management Act 2005
- Kamat, Shreedutt (2010). Disaster Financing: Concepts and Operationalisation. VDM, Verlag
- National Institute of Disaster Management Guideline
- Clarke, Daniel; Janvry Alain de; Sadoulet, Elisabeth and Skoufias, Emmanuel. (2015). Disaster Risk Financing and Insurance: Issues and Results
- Minimum Economic Recovery Standards. The SEEP Network
- Livestock Emergency Guidelines and Standards. (2009). Practical Action Publishing
- Handbook for Management of Animals in Disaster and Emergencies. (2022). Sphere India
- Various Guidelines of NIDM

Note: Latest edition of relevant reports/publications/text books may be used.

YEAR 1**SEMESTER I: PAPER- 3**

Course Title	Research Methodology - I		
Course Code	MPSDM - 103	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
The course aims to provide a strong foundation in research methodology, proposal development, disaster research and theories. Learners will develop skill sets to design research proposal using appropriate research methodology.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Develop understanding of research methodology and design.			
➤ Understand the significance of research proposal development.			
➤ Understand the disaster research and theories.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Research Methodology - I		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Concepts of Research Methodology Research – Characteristics, Types and Methods, Concept, Construct, Variable and Types of Variables (Dependent, Independent and Control), Development of Hypothesis – Significance and Types of Hypotheses, Types of Error in Hypothesis (Type I & Type II), Testing of Hypothesis. Research Design – Meaning, Type (Descriptive, Explanatory and Exploratory) and Element; Characteristics of Good Research Design, Phases of Research Design, Qualitative, Quantitative and Mixed Method Approach, Inductive and Deductive Research Strategy, Pilot Study, Concept of Sampling, Concept of Data – Qualitative and Quantitative Data, Primary and Secondary Data; Qualitative and Quantitative Tools and Method for Data Collection.	15
Unit- 2	Development of Research Proposal Research Area and Topic Selection, Formulation of Research Problem and Research Question, Conceptualization of Concepts, Survey of Literature and Review of Literature, Importance of Literature Review, Gap Identification from Literature, Citation (Intext), Objective and its Characteristics, Study Areas, Theoretical and Conceptual Framework, Inclusion and Exclusion criteria, Research Timeline.	15
Unit- 3	Humanitarian and Disaster Research Transdisciplinary Research (Quantitative, Qualitative, Mixed method approaches) – Narrative Research, Phenomenology, Ethnography, Case Study, Community-bases Participatory Research (CBPR), Health Emergency and Disaster Risk Management (Health- EDRM) etc.	15
Unit- 4	Disaster Theory Disaster Model and Theories – Pressure and Release Models (PAR), Risk Society, Build Back Better, Risk Perception and Communication etc.	15

Suggested Readings:

- Bryman, Alan. (2008). Social Research Methods. Fourth Edition. Oxford University Press
- Bryman, Alan. (1989). Research methods and Organization Studies. Routledge Publication
- Bryman, Alan. (1989). Quantity and Quality in Social Research. In Bulmer, Martin. Social Research Today. Routledge Publication
- Creswell, John W. (2009). Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Third Edition. SAGE Publication
- Etkin, David. (2016). Disaster Theory: An interdisciplinary Approaches to Concepts and Causes. Elsevier
- IGNOU Self Learning Material (MLIE-102 Research Methodology)
- Phillips, Brenda D. (2014). Qualitative Disaster Research: Understanding Qualitative Research. Oxford University Press
- Ram Ahuja (2007). Research Methods, Rawat Publication
- Rodriguez, Havidan; Donner, William and Trainor, Jos hep E. (2018). Handbook of Disaster Research. Springer Publication
- Stallings, Robert A. (2003). Methods of Disaster Research. Xlibris Corporation

Note: Latest edition of text books may be used.

YEAR 1**SEMESTER I: PAPER- 4**

Course Title	Information Communication Technology in Disaster and Development		
Course Code	MPSDM - 104	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Skill Enhancement Paper
Credit	Four (4)	Course Type	Theory + Practical
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide the role of Information Communication Technology (ICT) in disaster management and development. Learners will be equipped with knowledge and practical skills to use ICT related digital tools, geospatial technologies, database management systems and communication platforms. Learners will gain the ability to analyse and interpret information which will provide an understanding on early warning, emergency communication system and development.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the basic concepts of ICT.			
➤ Understand the significance of ICT in disaster management and development.			
➤ Utilize the ICT-based tools and technologies for disaster response and development.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Information Communication Technology in Disaster and Development		
Course Curriculum		(Total Lecture hours- 90)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Fundamental of ICT for Disaster Management and Development Introduction of ICT- Definition, Meaning, Nature and Significance, Components and Strategies; ICT in Disaster Communication, Alert Systems, National Disaster Communication Network; India Disaster Resource Network (IDRN), National Database for Emergency Management (NDEM), National Geophysical Research Institute (ISRO), Integrated Health Information Platform, Role of ICT in Disaster Risk Management, Other emerging technologies.	15
Unit- 2	Emergency Communication and Associated Risks Early Warning System (EWS) – Tsunami Early Warning System (TEWS), Weather Stations, UNOSAT, Indian National Centre for Ocean Information Services, National Disaster Alert Portal–SACHET, DAMIN etc. Forecast and warning – Indian Meteorological Department (IMD), Tsunami Warning Centre, Central Water Commission etc. Emergency Communication System– Wired and Wireless Communication (GSM/ CDMA), Amateur Radio, Satellite Phones, Digital Radio etc. Public Awareness – Radio, Television, Cell Broadcasting, Telephone (Fixed and Mobile), Short Message Service (SMS), Emails/Internet, sirens, social media etc. ICT Induced Risk Concept of ICT Induced Risks – Rumour, Fake News, Fake Alerts, Propaganda, Mis-Information, Miscommunication, Digital Arrest,	20

	Unauthorised Information and Scams; Electronic and Print Media, social media.	
Unit- 3	ICT Resources and Disaster Management Resources and Risk Mapping: UNISDR, USAID, Red Cross & Red Crescent, CDRI etc. Geophysical Resources: Bhuwan, Bhoonidhi, EM-DAT, USGS, SOI, GSI etc. Satellite Radar Systems: SAR, RISAT, Sentinel-1, RADARSAT etc. Navigation Programs: GNSS, GPS, GLONASS, IRNSS, GAGAN, DGPS etc. ** Case Studies based of ICT resource and programs.	15
Unit- 4	Application of ICT Introduction to GPS- History and Principles, Use of GPS- Surveying, Operating Principles, Reading a GPS; Function of GPS- Space Segment, Ground Control Segment and User Segment; Working of GPS, GPS Accuracy and Error. Application of DGPS (Differential RTK, Differential Real Time) and Total Station, Google Map and Google Earth. Drone and AI.	40

Suggested Readings:

- Talukdar, Swapan; Chatterjee, Ranit; Bera, Somnath; Prashar, Atish and Saw, Rajib. (2025). Communication, Science, Technology and Innovation in Disaster Risk Management: Recent Trends and Approaches in South Asia (GIScience and Geo-environmental Modelling). Springer Publication
- Scholl, Hans Jochen; Holdeman, Eric E. and Boersma, F. Kees. (2023). Disaster management and Information Technology: Professional response and Recovery Management in the Age of Disasters
- Relevant Publications/ Reports for concerned institution such as ISRO, NRSC, IMD etc.

Note: Latest edition of relevant reports/publications/text books may be used.

YEAR 1**SEMESTER I: PAPER- 5**

Course Title	Traditional – Indigenous Knowledge and Disaster Risk Reduction		
Course Code	MPSDM - 105	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Value Addition Paper
Credit	Two (2)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide the traditional knowledge and indigenous practices of the community. It will develop an understanding on role of culturally rooted wisdom to enhance community-based disaster risk reduction (CBDRR) and disaster resilience. Learners will be equipped with the ability to understand the traditional coping mechanism, early warning practices and the significance of traditional resources.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the significance of traditional and indigenous practices for DRR.			
➤ Integrate traditional knowledge/wisdom with modern developmental approach.			
➤ Develop community-based disaster DRR approach.			
➤ Enhance traditional knowledge based natural resource management.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Traditional – Indigenous Knowledge and Disaster Risk Reduction		
Course Curriculum		(Total Lecture hours- 30)
Unit No.	Content	Lecture Hours
Unit- 1	Traditional and Indigenous Knowledge Based Disasters Coping Strategies Concept of Traditional Knowledge and Indigenous Knowledge; Understanding of DRR from Traditional and Indigenous Knowledge System; Nature-based Early Warning Indicators; SWOT Analysis of Traditional and Indigenous Knowledge; Traditional and Indigenous Knowledge-based Natural Resource Management. Best Practices and Lesson Learned, Case Studies.	20
Unit- 2	Story Telling and DRR Concept of Story-Telling, Signification Stories; Story Framing and Story-Telling Skill; Integration of Stories with DRR Approach.	10

Suggested Readings:
➤ Panda, Gopal Krishna et. al. (2023). Indigenous Knowledge and Disaster Risk Reduction: Insight Towards Perception, Response, Adaptation and Sustainability. Springer Publication ➤ Shaw, Rajib. Indigenous Knowledge Disaster Risk Reduction: Policy Note. SEEDS India ➤ Wilson, Michael; Liguori, Antonia and Underwood-Lee, Emily. (2026). Storytelling Research Methods: Meaning Making and Interdisciplinary Knowledge across Borders. Routledge Publication Note: Latest edition of text books may be used.

YEAR 1**SEMESTER I: PAPER- 6**

Course Title	Field Work		
Course Code	MPSDM - 106	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	First	Course Category	Fieldwork Paper
Credit	Two (2)	Course Type	Practical
Max. Marks	100 = 100 (External Assessment)		
Course Overview			
This course aims to provide learners with practical field-based exposure in both rural and urban setting to understand the nature and dynamics of HRVC. Learners will gain skill to identify, assess and analyse the disaster risk. Learners will develop understanding in field survey, participatory research approaches which will enhance their ability to engage with the communities and community based DRR.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the corelation among hazard, risk, vulnerability and capacity.			
➤ Conduct field survey and collect disaster related data.			
➤ Integrate various government initiative with respect to disaster risks.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	-
	Assignment	-
	Performance	-
	Attendance	-
End Semester	Presentation and Viva Voce	100

Field Work		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Rural Field Exposure – Seven Days in a Village Understanding the Local Culture & Practices, Livelihood Patterns, Natural Recourses, Assets, Connectivity, Risk, Mitigation and Preparedness Measures. Hazard, Risk, Vulnerability, Capacity (HRVC) Assessment of the Areas – Transect Walk, Hazard Mapping, Resource Mapping, Problem Tree, Chapatti Diagram, Seasonal Calendars, Hazard Timelines, Ongoing Development Schemes and Programmes, Integration of HRVC & Governmental Program/Schemes. Community Engagement- Knowledge Sharing, Develop Understanding of CBDRR, Awareness Generation, Collection Historical Incidents, Traditional Stories Sharing.	30
Unit- 2	Urban Field Exposure Institutional visit and Practical exposure - Visit to Government/NGO (Red Cross, Fire Service Department/ Health Service Department etc.), Visit to Hazard Prone Location and Other Infrastructures/Offices Related to Disaster Management. Hazard, Risk, Vulnerability, Capacity (HRVC) Assessment of the Areas –Transect Walk, Hazard Mapping, Resource Mapping, Problem Tree, Chapatti Diagram, Seasonal Calendars, Hazard Timelines, Ongoing Development Schemes and Programmes, Integration of HRVC & Governmental Program/Schemes. Community Engagement- Knowledge Sharing, Develop Understanding of CBDRR, Awareness Generation, Collection Historical Incidents, Traditional Stories Sharing.	30

	Review of Disaster Management Plan of Hospital, Municipal Corporation and other Departments.	
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NOTE: -

- Learners will have rural field exposure and they will be placed in villages for a week long to have grassroot experience.
- Learners will have urban field exposure (one visit per month).
- Learner will have to present their experience and observation.
- A report (rural/urban visit) has to be submitted as per suggestive format.
- It is MANDATORY for the learners to participate in DRR-CAA Club activities.

Course Structure

MA/M.Sc. - Disaster Management and Sustainability (MDMS) (2-Year Program)

CREDIT DISTRIBUTION IN FOUR SEMESTERS

(80 CREDITS IN TOTAL)

SEMESTER 2

Summarized Credits for the M.A. /M.Sc. – Semester 2										
Course Code	Course	Full Mark	Mid Semester		End Semester		Teaching Scheme			Hour
			FM	PM	FM	PM	Credit	TH	PR	
MPSDM - 107	Health and Disaster	100	30	13	70	32	4	3	1	75
MPSDM - 108	Supply Chain Management	100	30	13	70	32	4	4	0	60
MPSDM - 109	Research Methodology-II	100	30	13	70	32	4	3	1	75
MPSDM - 110	Remote Sensing in Disaster Management and Developmental Planning	100	30	13	70	32	4	2	2	90
MPSDM - 111	Review of Policies and Plans	100	30	13	70	32	2	0	2	30
MPSDM - 112	Internship -I	100	-	-	100	40	2	0	2	60
TOTAL		600					20			390

Skill Enhancement Paper: MDMS-110, Value Addition Paper: MDMS-111

FM: Full Marks, PM: Pass Marks, TH: Theory, PR: Practical

YEAR 1**SEMESTER II: PAPER- 1**

Course Title	Health and Disaster		
Course Code	MPSDM - 107	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Second	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory + Practical
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
The course aims to provide understand on interrelationship between health and disaster. Learners will be equipped with knowledge of health preparedness and mental health. The course is designed to provide an understanding of health system infrastructure, prevention and mitigation measures, mass causality management and psychosocial support systems.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the relationship between disasters and health issues.			
➤ Identify and analyze various types of health issues and its impact on community during disaster.			
➤ Understand the significance of physiological support system in public health.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Health and Disaster		
Course Curriculum		(Total Lecture hours- 75)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Public Health Systems, Infrastructure and Surveillance Concept of Health – Physical, Mental and Social Wellbeing, Structure of Health Services; Hospital Preparedness, Healthcare Institution and Programmes (Local to Global), Case Studies and Planning Guidelines. Concept, Types and Components of Surveillance System, Indicator and Event-Based Surveillance, Common Problems of Surveillance, Integrated Surveillance Projects (IDSP), Early Warning, Alert and Response System (EWARS).	15
Unit- 2	Disaster induced Diseases Concept of Water, Sanitation and Hygiene (WASH), Communicable Diseases & Non-Communicable Diseases; Health Preparedness and Prevention of Risk, Mortality and Morbidity; Food Safety and Food Security During Disaster. Gender Health – Concept of Gender, Issues and Challenge of Gender Health; Determinants of Health; Environmental Health; Concept of One Health, Health Impact Assessment. (HIA). Case studies of Communicable Diseases and Non-communicable Diseases	15
Unit- 3	Disaster Epidemiology, Medicines and Forensics Concept of Epidemiology, Epidemiological Survey (CASPER Toolkit); Concept of Disaster Medicine; Occupational Health and Safety (OSH); Post Disaster Need Assessment (PDNA), Concept of Disaster Forensic Retrospective Disaster Forensic Analysis of victims (FORIN Method), and Mass Casualty Management.	20

	Case studies on Forensic Investigation of Disaster Risks Drivers and Root Causes.	
Unit- 4	Mental Health and Psychosocial Support Concept of Mental Health, Factors Affecting Mental Health; Mental Health Illness, Challenges of Mental Health. Psychological responses – Concept of Psychological Rehabilitation; Psychological First Aid (PFA) and Psychological Debriefing and its Importance; Trauma-Focused Cognitive Behavioural Therapy (CBT), Community Based Interventions, Trauma Counselling, Stress Management Techniques, Gamified Techniques. Case studies of Mental Health and Intervention in Disaster Management.	25

Suggested Readings:

- Bryce, Cyralene P. (2001). Stress Management in Disasters, PAHO
- CDRI. (2024). Towards Resilient Health Infrastructure
- GAR Special Report. 2024. Forensic Insights for Future Resilience: Learning from Past Disasters
- NIDM. (2019). Handbook: Post Disaster Needs Assessment India
- Masys, Anthony J. (2016). Disaster Forensic: Understanding Root Cause and Complex Causality. Springer
- NIDM. (2019). Handbook: Post Disaster Needs Assessment India
- Oliver-Smith Anthony, Alcantara-Ayala Irasema, Burton Ian and Lavell Allan. 2016 Forensic Investigation of Disasters (FORIN): A Conceptual Framework and Guide to Research. IRDA
- OSHA, Factories/Companies Act
- Sekar, K., C. Jayakumar and Jude Patrick. (2023). Psychosocial First Aid. NIMHANS-NDMA
- Sphere Association. (2018). The Sphere Handbook: Humanitarian Charter and Minimum Standards in Humanitarian Response
- The Alliance. (2019). Minimum Standard for Child Protection in Humanitarian Action. Humanitarian Standards Partnerships

- WHO. (2019). Health Emergency and Disaster Risk Management Framework
- WHO, Health Impact Assessment (HIA) Methods: <https://www.who.int/tools/health-impact-assessments>
- Winter Alfred, Ammenwerth Elske, Haux Reinhold, Marschollek Michael, Steiner Bianca and Jahn Franziska. (2023). Health Information Systems: Technological and Management Perspectives, Springer

Note: Latest edition of relevant reports/publications/text books may be used.

YEAR 1

SEMESTER II: PAPER- 2

Course Title	Supply Chain Management		
Course Code	MPSDM - 108	Programme	M.A./M.Sc. Public Health and Disaster Management (Two Year)
Semester	Second	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide understanding of supply chain management principles and their applications in humanitarian logistics. Learners will be equipped with knowledge and skills to identify, assess, measure, monitor and manage the efficient flow of resources, information and services in disaster response. Learners ‘ability will be enhanced to develop effective supply chain management process, address logistical challenges to achieve the objective of humanitarian logistics.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the signification of supply chain management in humanitarian logistics.			
➤ Develop understanding about supply chain management.			
➤ Identify, assess, and integrate potential risk in local to global supply chain networks.			
➤ Develop skills for managing inventory and resource allocation.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Supply Chain Management		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Supply Chain Management (SCM) Concept of Supply Chain Management, Components and Drivers of Supply Chain Performance, Supply Chain Network Design, Humanitarian Supply Chain vs Commercial Supply Chain, Role of Technologies in SCM – ERP, GIS, Tracking System, AI, RFID, Barcode. Issues and Challenges in SCM.	15
Unit- 2	Humanitarian Logistics Framework Concept of Humanitarian Logistics; Principles of Humanitarian Logistics; Issues and Challenges of Humanitarian Logistics; Inter-agency Communication and Coordination Mechanisms – Government, NGOs, and International Agencies; Reverse Logistics, Humanitarian Logistics in Disaster Response. Case studies on Humanitarian Logistics in Disaster.	15
Unit- 3	Disaster Logistics Planning and Operations Resource Mapping, Warehousing and Inventory Management, Procurement and its Challenges, Transportation and Distribution of Relief Materials, Last-mile Connectivity and Delivery Challenges, Technologies-based Logistic Planning and Operations, Medical Logistics Management, Armed Force in Logistic Planning and Operations.	15
Unit- 4	Disaster Resilient Supply Chain Management (RSCM) Concept of Resilient SCM, SWOT Analysis of RSCM, Overview of Green Logistics/Corridor, Public-Private Partnership in Humanitarian Logistics; Emerging Trend in SCM Digital Supply Chain, AI, Blockchain in Humanitarian Logistics, Indigenisation of Disaster Supply Chain for Humanitarian Assistance and Disaster Relief (HADR). Case studies and Best Practices.	15

Suggested Readings:

- Baisya, Rajat K. (2024). Supply Chain and Logistics Management: An Integrated Approach. Routledge Publication
- Dyckhoof, Harald; Lackes, Richard and Reese, Joachim. (2003). Supply Chain Management and Reverse Logistics
- Kovacs, Gyongyi and Spens, Karen M. (2011). Relief Supply Chain Management for Disasters: Humanitarian Aid and Emergency Logistics. IGI Global
- Waters, Donald. (2011). Supply Chain Risk Management: Vulnerability and Resilience in Logistics. Kogan Page Publishers

Note: Latest edition of text books may be used.

YEAR 1
SEMESTER II: PAPER- 3

Course Title	Research Methodology - II		
Course Code	MPSDM - 109	Programme	M.A./M.Sc. Public Health and Disaster Management (Two Year)
Semester	Second	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory+ Practical
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop strong foundation by equipping the learners with essential skills for conducting systematic and rigorous research. Learners will be able to design and develop research proposal, understand and apply appropriate research design and adopt ethical principles in research process. Learners will gain competencies in data collection, analysis and interpretation using suitable methods and tools. Learners will be able to develop skill of effective writing.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the research sampling methods and techniques.			
➤ Demonstrate competence in data collection and analysis.			
➤ Understand the ethical consideration of doing research.			
➤ Produce formal research Thesis/ Dissertation.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Research Methodology - II		
Course Curriculum		(Total Lecture hours- 75)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Research Sampling Sampling – Purpose and Principle of Sampling, Types of Sampling (Probability and Non-Probability Sampling), Universe, Population, Sample Size.	10
Unit- 2	Data Collection and Data Analysis Method, Tools and Techniques of Data Collection; Qualitative, Quantitative and Mixed Method, Tools (eg. SPSS, AtlasTi etc.) and Techniques of Data Analysis, Scaling and Measurement (Validity and Reliability).	25
Unit- 3	Ethical Consideration Ethical Issues of Research, Identification and Avoiding Biases, Informed Consent, Privacy Concerns, Academic Integrity– Duplication and Plagiarism, Selective Reporting and Misrepresentation of Data. Publication Ethics – Introduction and Importance, Conflict of Interest, Publication Misconduct – Authorship and Contributories. Predatory Publishers and Journals. Journal Finder, Plagiarism Software- Turnitin, Urkund etc.	20
Unit- 4	Concepts of Thesis/ Dissertation Writing Thesis/Dissertation Writing; Element of Thesis/Dissertation, Manual of Style Citation; Reference and Bibliography, Indexing/citation database, Research Matrix; Defending dissertation/ Viva-voce.	20

Suggested Readings:
➤ Bergin, Tiffany. (2018). An Introduction to Data Analysis: Quantitative, Qualitative and Mixed Method. Sage Publication Ltd. ➤ Bernard, Russell H. and Ryan, Gery W. (2010). Analysing Qualitative Data: Systematic Approaches. Sage Publication Ltd.

- Bryman, Alan & Cramer, Duncan. (2005). Quantitative Data Analysis with SPSS 12 and 13: A Guide for Social Scientists. Routledge Publication
- Comstock, Gary. (2013). Research Ethics: A philosophical Guide to the Responsible Conduct of Research. Cambridge University Press
- Denzin, Norman K. and Lincoln, Yvonna S. (2005). The SAGE Handbook of Qualitative Research. Third Edition. SAGE Publications
- Gaur, Ajai S. and Gaur, Sanjaya S. (2006). Statistical Methods for Practice and Research: A Guide to Data Analysis Using SPSS
- Flick, Uwe. (2014). The SAGE Handbook of Qualitative Data Analysis. SAGE Publication
- Flick, Uwe. (2014). An Introduction to Qualitative Research, Fourth Edition. SAGE Publication
- Koepsell, David. (2017). Scientific Integrity and Research Ethics: An Approach from the Ethos of Science. Springer
- Ritchie, Jane and Spencer Liz. (1994). Qualitative Data Analysis for Applied Policy Research. In Bryman A and Burgess (Eds), R.G. Analysing Qualitative Data. Routledge Publications. pp. 173-194
- Patton, Michael Quinn. (2002). Qualitative Research & Evaluation Methods. Sage Publications

Note: Latest edition of text books may be used.

YEAR 1

SEMESTER II: PAPER- 4

Course Title	Remote Sensing in Disaster Management and Developmental Planning		
Course Code	MPSDM- 110	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Second	Course Category	Skill Enhancement Paper
Credit	Four (4)	Course Type	Theory + Practical
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to provide an understanding of applications of remote sensing in disaster management. Learners will be equipped with knowledge and practical skills to identify, assess, collect, interpret and analyse geospatial information for effective disaster risk assessment, preparedness, response and recovery. The course will enhance learners ‘ability to utilize satellite imagery and use remote sensing tools to monitor hazards, assess damage, and support in informed decision making to strengthen the capacity to address disaster-related challenges.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand and interpret satellite or aerial imagery to identify disaster-related features.			
➤ Develop proficiency in using basic remote sensing tools.			
➤ Utilize the application of remote sensing techniques in disaster mitigation.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Remote Sensing in Disaster Management and Developmental Planning		
Course Curriculum		(Total Lecture hours- 90)
Unit No.	Content	Lecture -cum- Practical Hours
Unit- 1	Introduction to Remote Sensing Remote Sensing – Definition and Principles of Remote Sensing; Components of Remote Sensing – Signal and Sensor; Types of Remote Sensing – Platform-based, Energy Source, Imaging Media EMR Spectrum, Bands; Image Characteristics; Orbit and Orbit Characteristics; Satellite and Sensors; Sensor Resolutions; Image Referencing System; Interaction – Scattering (Rayleigh, Mie and Non-Selective), Absorption, Reflection, Reflection; Interpolation – TIN, DTM and DEM, Characteristics of DEM and TIN; Integration of RS and GIS.	15
Unit- 2	Digital Image Processing for Disaster Management Digital Image, Pixel, Digital Number, Image format – BIP, BIL, BQS etc.; Image Histogram; Inference: Image Interpretation – Visual and Digital, TCC and FCC; Data Pre-processing : Correction Techniques – Geometric, Atmospheric and Radiometric Corrections, Noise Removal; Image Enhancement – Contrast Stretching and Level Slicing; Image Manipulation – Kernel, Spatial Filtering; Edge Enhancement – Linear and Non-Linear, Convolution; Mosaicking; Image Classification – Supervise and Unsupervised Classification, Resampling Methods; Accuracy Assessment.	15
Unit- 3	Practical Application of Remote Sensing [Familiarization with Image Processing Software and Open-Source Intelligence (OSINT)]. Georeferencing of Data (Toposheet, Image to Maps, Image to Image), Layer Stacking, Created FCC and TCC Images, Creating AOI and Subset, Mosaic, Pre-processing, Correction Techniques – Geometric, Atmospheric and Radiometric Corrections, Noise Removal; Image enhancement – Radiometric Enhancement, Spatial Enhancement, Spectral Enhancement; Image Classification – Supervise and	30

	Unsupervised Classification, Accuracy Assessment, Change Detection Analysis, Demonstration on GPS, Collection of Waypoints through GPS or DGPS, Downloading Handheld GPS Data into Software. Transformation of GPS Data to the GIS Software, Construction of Maps through GPS.	
Unit- 4	Application of Remote Sensing in Disaster Management Disaster Planning, Land Use and Land Cover (LULC), Change Detection, Application on Agriculture, Urban Development, Geomorphology, Hydrology, Coastal Management, Hazard Mapping, Geology and Forestry, Disaster Response Planning.	30

Suggested Readings:

- Bhatta, Basudeb. (2013). Remote Sensing and GIS- 2nd Edition. Oxford University Press
- Campbell, J.B. (2002). Introduction to Remote Sensing. Taylor Publication
- Drury, S.A. (1987). Image Interpretation in Geology. Allen and Unwin
- Gibson, P.J. (2000). Digital Image Processing, Routledge Publication
- Gupta, R.P. (1990). Remote Sensing Geology. Springer Verlag
- Jensen, J.R. (2000). Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall
- Joseph George. (2003). Fundamentals of Remote Sensing. Universities Press
- Lillesand, T.M., and Kieffer, R.M. (1987). Remote Sensing and Image Interpretation. John Wiley
- Maltiar, K.K. and Maltiar, S.R. (2019). Concept of Cartography Remote Sensing and GIS. Rajesh Publication
- Nag P. and Kudrat M. (1998). Digital Remote Sensing. Concept Publication
- Pandey Shivam and Tripathi, Shashikant. (2020). Basic concept of Remote Sensing, GPS and GIS. Sankalp Publication
- Pratt. W.K. (2004). Digital Image Processing. John Wiley
- Sabbins, F.F. (1985). Remote Sensing Principles and Interpretation. W.H. Freeman and Company

Note: Latest edition of text books may be used.

YEAR 1
SEMESTER II: PAPER- 5

Course Title	Review of Policies and Plans		
Course Code	MPSDM- 111	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Second	Course Category	Value Addition Paper
Credit	Two (2)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop an understanding on significance of policies and plans related to the development sectors and disaster management. Learners will be equipped with the ability to critically review, analyse and assess the gap in the existing policies and plans at local, national and global levels. Learners will gain enhanced ‘capacity to assess the effectiveness, inclusiveness and sustainability of development and disaster-related policies, contribute to informed decision-making and improved policy design in professional contexts.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understanding the significance of policy and plans in disaster and development.			
➤ Assess the gaps in policy and plans.			
➤ Integrated the disaster risk into developmental policy and plan.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Review of Policies and Plans		
Course Curriculum		(Total Lecture hours- 30)
Unit No.	Content	Lecture Hours
Unit- 1	Understanding Policies and Plans in Disaster Management and Development perspectives. Significance of policies and plans, Overview of policies and plans related to disaster management, Critical review of development policies and plans through lens of disaster management, Integration of Disaster Risk Reduction (DRR) approach into development planning. Relevant Case studies.	15
Unit- 2	Review and Analysis of Policies and Plans Corporate Social Responsibility (CSR) Policy, Environment Social and Governance (ESG) Policy, Business Continuity Plan (BCP), Policies and Annual Reports of Frontline Department such as Panchayati Raj Institutions (PRI), Urban Local Bodies (ULB), Disaster Management Department etc., Gap Assessment of Policy and Plan. Relevant Case studies of Local to Global Policies and Plans.	15

Suggested Readings:
➤ Paton, Douglas and Johnston, David. (2017) Disaster Resilience: An Integrated Approach. Charles C. Thomas Publication. Illinois ➤ UNDRR Publications. ➤ UNEP reports. ➤ Sendai Framework, IPCC, SDGs ➤ National Policy on Disaster Management (NPDM) ➤ National Disaster Management Plans ➤ State Disaster Management Plan ➤ NITI Aayog reports ➤ State Economic Survey Reports ➤ NDMA guidelines & publications. ➤ Govt. various initiatives. Note: Latest edition of relevant reports/publications/ text books may be used.

YEAR 1**SEMESTER II: PAPER- 6**

Course Title	Internship- I		
Course Code	MPSDM- 112	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Second	Course Category	Internship
Credit	Two (2)	Course Type	Practical
Max. Marks	100 = 100 (External Assessment)		
Course Overview			
This course is designed to provide the first-hand field exposure, enables to gain practical experience and real-world insights. Learners will be professionally equipped with skills, knowledge and competencies to effectively function within the organization setting. The course will build expertise in the key areas such as disaster management, climate change, sustainable development and related interdisciplinary fields, and prepare the learners to address contemporary global challenges with confidence and professionalism.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Integrating academic knowledge with field practices.			
➤ Develop communication and coordination skills along with critical thinking skills.			
➤ Developing understanding of organizational culture, workplace etiquette, and accountability.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	-
	Assignment	-
	Performance	-
	Attendance	-
End Semester	Report writing, Presentation & Viva Voce	100

Internship- I		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Practical Hours
	Inhouse Attachment All the learners will be attached with any of the agencies/organisation/institutions for the period of 60 days. They are expected to work for the host organization under the guidance/supervision of an experienced professional and supervision of an assigned faculty of the department. During this period, learner will take up regular activities as per the given assignment/ given format. Learners are required to submit a report based on the activities performed by them during the internship along with the daily logbook and field diary. Learner will be evaluated by his/her supervisor in the organization during the internship period. A confidential performance appraisal report duly filled by supervisor and sent to the Head of the Department at Jharkhand Raksha Shakti University, directly. At the end of the semester, students will be evaluated based on the performance appraisal report, internship report, class presentation and viva-voce.	60

Course Structure

MA/M.Sc. - Public Safety and Disaster Management (MPSDM) (2-Year Program)

CREDIT DISTRIBUTION IN FOUR SEMESTERS (80 CREDITS IN TOTAL)

SEMESTER 3

Summarized Credits for the M.A. /M.Sc. – Semester 3										
Course Code	Course	Full Mark	Mid Semester		End Semester		Teaching Scheme			Hour
			FM	PM	FM	PM	Credit	TH	PR	
MPSDM - 113	Conflict Management	100	30	13	70	32	4	4	0	60
MPSDM - 114	Emergency Response Management	100	30	13	70	32	4	4	0	60
MPSDM - 115	Community Based Disaster Risk Reduction	100	30	13	70	32	4	4	0	60
MPSDM - 116	Geographical Information System in Disaster Management and Developmental Planning	100	30	13	70	32	4	2	2	90
MPSDM - 117	Environmental Social Governance (ESG) and Climate Risk	100	30	13	70	32	2	2	0	30
MPSDM - 118	Disaster and Development	100	30	13	70	32	2	2	0	30
TOTAL		600					20			330

Skill Enhancement Paper: MDMS-116, Value Addition Paper: MDMS-117

FM: Full Marks, PM: Pass Marks, TH: Theory, PR: Practical

YEAR 2

SEMESTER III: PAPER- 1

Course Title	Conflict Management		
Course Code	MPSDM- 113	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop a comprehensive understanding about conflict and its management. Learners will gain theoretical perspective on conflict at local, regional, national and international levels. They will be able to understand the complexities of conflict management such as migration, cross-border issues and governance. Further they will gain knowledge on protection of refugees and displaced population. Learners will also gain in-depth understanding on human rights, humanitarian laws and ethics. The course will enable the learners have a holistic idea of peace and conflict in social development.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the concept of conflict.			
➤ Understand the principles and strategies of peacekeeping and conflict governance and safeguard mechanism during conflict.			
➤ Develop understanding on Human Rights, Humanitarian Laws and Ethics			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Conflict Management		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introduction to Conflicts Conflict – meaning, nature and characteristics, Conflict phenomenon and types (tangible & non-tangible), Conflict cycle. Cause of conflict, Conflict Management – negotiations, mediation, arbitration and conciliation.	15
Unit- 2	Border Management Border – meaning and importance, types of international borders, border security and surveillance, issues in border management, Role of Border communities in development and peace; Border Trade; Role of Armed Forces in border management, Territorial Disputes; Schemes- Border Area Development Programme (BADP), Vibrant Village Programme (VVP), Civic Action Programme (CAP), Case Studies.	15
Unit- 3	Peace Building and Safeguarding Meaning and concept of Peace, Difference between Peacebuilding, Peacekeeping, and Peace-making; Challenge in Peacekeeping; Reconciliation, Community based peacebuilding, United National peacekeeping operations, Role of regional organization, NGOs and International Humanitarian organization, Role of diplomacy in peacebuilding. Case Studies. Safeguarding the Women, youth and civil society in peacebuilding. Concept of refugee, internally displaced persons (IDPS), asylum seeker and stateless person, Refuge protection mechanism, Refugee camps and Humanitarian assistance, Challenged faced by refugees. International Refugee Laws. Case Studies.	15
Unit- 4	Human Rights and Humanitarian Ethics Human Rights - concept and evolution of Human rights, Universal Declaration of Human Rights (UDHR), International Covenant on Economic, Social and Cultural Rights (ICESCR) & International Covenant on Civil and Political Rights (ICCPR), Types of Rights - Civil	15

	and Political Rights, Women's Rights, Children's Rights, Minority Rights, Indigenous Persons' Rights and Human Rights during Armed Conflict. Humanitarian Laws – concept and principles, International Humanitarian Law, Protection of civilians, medical personnel and press personal; War crimes, Geneva Convention and Hague Convention; Challenges in implementation of Humanitarian Laws; Ethical principles in Humanitarian action, Humanitarian Response; Case studies on conflict.	
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Suggested Readings:

- Bhatt, Amitabh (2019). Mountain War and Border Management. Prashant Publishing House
- Deresky, Helen. (2013). International Management: Managing Across Borders and Cultures. Pearson Education
- Bartlett, Christopher and Beamish, Paul W. (2018). Transnational Management: Text and Cases in Cross-Border Management. Cambridge University Press
- Guo, Rongxing. (2016). Cross-Border Management: Theory, Method and Application. Springer
- Kapoor, S.K. (2004). International Law and Human Rights. Central Law Agency
- Rashee, Jian (2016). Textbook on Human Rights: Law and Practice. Universal Law Publication
- Srinath Raghwan (2016). India's War: The Making of Modern South Asia 1939-1945. Penguin Publication
- Agarwal, H.O. (2023). Human Rights. Central Law Publication
- Gankidi, Sudarshanam. (2019). Humna Rights in India: Prospective and Retrospective. Rawat Publication
- Deshpande, Bhagyashree (2019). Human Rights: Law & Practice. Central Law Publication
- Odon, Daniel Ivo. (2023). Armed Conflict and Human Rights Law: Protecting Civilians and International Humanitarian Law. Routledge Publication
- Webel, Charles and Galtung, Johan (2007). Handbook of Peace and Conflict Studies. Routledge Publication
- Barash, David P and Webel, Charles P. (2002). Peace and Conflict Studies. Sage Publication Inc.

- Lacy, Marck J. (2023). Theorising Future Conflict: War Out of 2049. Routledge
- Majumdar, Anindya Jyoti and Chatterjee, Shibashis (2020). Peace and Conflict Studies: Perspective from South Asia. Routledge
- Guo, Rongxing. (2012) Territorial Disputes and Conflict Management: The Art of Avoiding War. Routledge Publication
- Parihar, Parul (2018). The Sociology of Conflict Studies: From Alienation to Alignment: A Situational Analysis of Kashmir Crisis. Notion Press
- Hallward, Maia Carter; Kim, Ji Eun; Mouly, Cecile; Seidel, Timothy and Wai, Zubairu. (2025). The Sage Handbook of Peace and Conflict Studies. Sage Publication
- Fleck, Dieter (2021). The Handbook of International Humanitarian Law. Oxford University Press.

Note: Latest edition of relevant reports/publications/ text books may be used.

YEAR 2

SEMESTER III: PAPER- 2

Course Title	Emergency Response Management		
Course Code	MPSDM- 114	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop a comprehensive understanding of emergency response to prepare for, respond to and coordinate emergency situation arising during natural and human induced disaster and public safety crisis. Learners will develop knowledge and practical skills on emergency management, operation planning, incident response system, search and rescue, evacuation procedure, first aid and basic life support, logistics and relief distributions. Learners will develop competencies to manage the disaster emergencies through case studies, stimulation and field exercise.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the concepts of emergency response and assess the emergency situations.			
➤ Demonstrate the ability to manage emergency logistics, communication, resource mobilization and relief operation in collaboration with other stakeholders.			
➤ Develop post-emergency response activities and strategies through best practices and lesson learned.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Emergency Response Management		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introduction Emergency Response Emergency Response – meaning and importance, Objective and principle of emergency response, Components of Emergency Response System. Resource Mobilization. Emergency Response Plan, Standard Operating procedures (SOP), Warning dissemination, First responders, SAR operations, Evacuation, Information Management Systems, Challenges in emergency response, Critical review of emergency response. Relief Operations, Role of community, volunteers in relief operation, Emergency Operation Centres (EOC), Incident Response System - overview and features, Incident Response Teams, Resource Management and networking – IDRN, Role of Wholesale Association, Procurement challenges, Role of Disaster Response Force and Community Based Organizations (CBOs). Case studies.	15
Unit- 2	Health Emergency Services and Support Concept of Emergency, Types of emergencies, Health Emergency, Pre-hospital Care - First Aid, Basic Life Support (BLS), Injury Management, Handling of injured person; Golden Hour, First Aid Triage- Principles, Types and Triage systems. Public Health Emergency Operation Centres (PHEOC), Mass Casualty Management, Emergency Medical Preparedness and Response, Hospital Safety, Hospital Emergency Management and Preparedness Plan, Health Emergency Teams, Dead Body Management. Site Management – Emergency Site, Intermediate Site, Short-term/ Temporary Site, Site selection; Onsite Hospital Management; Long-term emergency settlements. Emergency Support Function (ESF), Emergency Support Teams.	15

Unit- 3	Communication during Disaster Disaster Communication, Nature and scope of Communication, Role of communication in disaster, Disaster Communication Models and Processes, Ethical issues in Disaster Communication. Disaster Warning/Alert Communication – Risk Perception, Hazard Awareness, Rumour, Cultural influence on risk communication, Cultural Cognitive Theory of Risk approaches.	15
Unit- 4	Media and Public Affairs during Emergencies Concept of Media and Mass Media, Types of Media and Mass Media – Print, Electronic, Digital and Social media, Community Radio and Local communication networks, Alternative media; News Media coverage; Biases and stereotypes, Objective of Mass Media, Role of Media in Disaster Management and Crisis – Awareness generation, Dissemination of EWS, Real-time information, Disaster Response (SAR & Rehabilitation), Public Participation and Community Resilience. Challenges due to media – Fake news, Misinformation, Miscommunication; Impact of media – Rumours, Panic etc. Disaster Reporting, Phase of Disaster Reporting, Significance of Disaster Reporting, Issues and challenges of Disaster Reporting, Checklist for Disaster Reporting, Authenticate Information source; Media related challenges – limited access, communication networks. Threats due to media – Public, Reporter, Nation. Case studies based on media during disaster.	15

Suggested Readings:

- Haddow, George; Bullock, Jane and Coppola, Amon P. (2024). Introduction to Emergency Management. Elsevier- Butterworth-Heinemann Inc.
- Erikson, Paul A. (2023). Effective, Environmental Emergency Response: A holistic Response. Springer

- Phillips, Brenda D; Neal, David M. and Webb, Gary R. (2021). Introduction to Emergency Management and Disaster Science. Routledge.
- Khorram-Manesh, Amir; Goniewicz, Krzysztof; Hertelendy, Attila J. and Dulebenets, Maxim A. (2021). Handbook of Disaster and Emergency Management: New Era, New Challenges
- Nicholson, William C. (2003). Emergency Response and Emergency Management Law: Cases and Materials. Charles C. Thomas Publishing Ltd.
- Gbasha, Cyprian Terhemba, Mtsor, Lilian Doofan and Vihishima, Francis Sesugh. (2024). Social Media and Health Emergency Response Management. Lambert Academic Publishing
- Scott, Alfred. (2026). Disaster Response and Emergency Management. Syrawood Publishing House
- Cheremisinoff, Nicholas P. and Davletshin, Anton. (2010). Emergency Response Management of Offshore Oil Spill: Guidelines for Emergency Responders. Wiley-Scrivener
- Racz, LeeAnn and Badiru, Adedeji B. (2026), Handbook of Emergency Response: A Human Factors and Systems Engineering Approach. CRC Press
- Mohan, Chandra; Kumari, Neeraj and Kaushik, Ajeet. (2024). Disaster Human Crisis: Emergency, Response and Recovery. Nova

Note: Latest edition of relevant reports/publications/ text books may be used.

YEAR 2

SEMESTER III: PAPER- 3

Course Title	Community Based Disaster Risk Reduction		
Course Code	MPSDM- 115	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Core Paper
Credit	Four (4)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop an understanding on community participation and resilience. The community role in disaster preparedness, mitigation, response and recovery through case studies, field-based activities and practical exercises. The course equips the learners with skills and knowledge to develop and implement community centred disaster risk reduction strategies for sustainable and resilient development.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Understand the concept of Community Based Disaster Risk Reduction (CBDRR) and significance of community participation in disaster management.			
➤ Conduct community-based Hazard, Risk, Vulnerability and Capacities (HRVC) assessment using participatory community-based assessment tools and techniques.			
➤ Develop community preparedness and risk reduction plans for community resilience and empowerment.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Community Based Disaster Risk Reduction		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introduction of Community Based Disaster Risk Reduction Community Based Disaster Risk Reduction (CBDRR) - meaning and importance, Principles of CBDRR, Role of community in decision making, and community leadership, Gender-based CBDRR, Inclusion of vulnerable groups, Challenges in CBDRR, Participatory Rural Appraisal (PRA). Best practices from national and international experiences.	15
Unit- 2	Roles of Local Authorities Roles and Responsibilities of Local Authority, Panchayati Raj Institutions/ Urban Local Bodies (PRIs/ULBs), Non- Governmental Organizations (NGOs) and other relevant stakeholders. Community-based Government Scheme and DRR.	15
Unit- 3	Community based Disaster Risk Mitigation (DRM) People's participation, Role of civil society and volunteer organization. Community actions and activities for DRR, Participatory Risk Assessment and its methods, Culture of safety. Community-based EWS and Community-based development practices, Community-led developmental planning. Case studies.	15
Unit- 4	Building Community Resilience Common Pool Resources (CPR), Community Assets and Social Wealth; Community Risk and Resource Mapping, Public Awareness, Conflict Resolutions – Collaboration and Consensus, Public Voices and Public Spheres, Citizen Forum. Disaster Literacy of Communities, Social Justices Challenges and Media Advocacy, Community Based Organizations (CBOs),	15

Suggested Readings:

- UNISDR. (2007). Building Disaster Resilient Communities: Good Practices and Lesson Learned
- Madu, Christian N. and Kuei, Chu-Hua (2017). Handbook of Disaster Risk Reduction and Management: Climate Change and Natural Disaster
- Centre for Public Policy Research (2020). Community Resilience Handbook for Disaster Preparedness and Management
- UNDP. (2025). Community-Based Resilience -Building: A UNDP Guidance Note
- BMTPC. (2016). Disaster Risk Reduction: A Handbook for Urban Managers
- Shaw, Rajib. (2012). Community-Based Disaster Risk Reduction: Community, Environment and Disaster Risk Management. Vol 10. Emerald Group Publication Ltd.
- Ocal, Adem. (2025). Community -Based Disaster Risk Reduction. In: Shaw, Rajib (eds). Encyclopaedia of Disaster Risk Reduction. Springer
- Shaw, Rajib. (2016), Community-Based Disaster Risk Reduction. Oxford Research Encyclopaedia of Natural Hazard Science

Note: Latest edition of relevant reports/publications/ text books may be used.

YEAR 2

SEMESTER III: PAPER- 4

Course Title	Geographical Information System in Disaster Management and Developmental Planning		
Course Code	MPSDM- 116	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Skill Enhancement Paper
Credit	Four (4)	Course Type	Theory + Practical
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to introduces comprehensive understanding of the applications of geographical information system in disaster management. Learners will be equipped with knowledge and practical skills to collect, analyse and visualize spatial data for effective hazard mapping, risk assessment utilizing tools for spatial modelling and efficient emergency decision making. The course will enhance learners ‘ability to have a hands-on training with GIS software tools to produce the digital maps.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Develop proficiency in using basic GIS software.			
➤ Understand and use the GIS tools and spatial analysis technique for hazard assessment, risk mapping and emergency planning.			
➤ Promote the application of GIS in disaster response and planning.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Geographical Information System in Disaster Management and Developmental Planning		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introduction to Geographical Information System Introduction to GIS- Definition; History and Evolution of GIS, Components of GIS; Three View Information System, Map, Map Characteristics – Scale and Classification of Map, Mapping Process; Map Coordinates- Plane and Geographic Coordinated; Map Projection – Classification of Map Projection, Map Aspect; Georeferencing – Ellipsoid and Geoid Models, Geodatic and Vertical Datum; Relation between Coordinate System and Map Projection; Spatial Dimension – Spatial and Non-spatial Data, Vector and Raster Data; Spatial Objects – Point, Line Polygon; Types of Digitizing Errors, Topology, Non-Spatial or Attribute Data Exploration – Attribute Data Entry, Attribute measurement Scale; Spatial Data Analysis – Data Selection/Query/Retrieval, (Re)classification, Overlaying Operations, Region Transformation/Measurement, Neighbourhood Operations, Connectivity Operations	15
Unit- 2	Spatial Database Design and Analysis Geodatabase Creation, Spatial Data Integration (Digitization), Point, Line, Polygon; Spatial Data Editing – Building Topology, Non-spatial Data Integration – Attribute Tables Creation and Join Data, Non-Spatial Data Editing – Add or Delete Column/Field in Attribute data, Search, Selection and Queries of Spatial and Non-Spatial data, Vector Data analysis – Extraction, Overlay, Proximity; Raster Data analysis – Arithmetic Functions, Relational Functions, Conditional Functions, Matrix Overlay, Overlay Weightage	15

	Analysis, Neighbourhood Operations – Interpolation Function, Connectivity and Network Analysis – Shortest Path Analysis, New Route analysis, New Closet Facility Analysis, Service Areas Analysis, Best Route, Origin-destination Cost Matrix; Map Design – Types of Maps and Cartographic Symbolisation Of Maps, Symbolization, Pattern and Shading Techniques Of Different Types of Maps, Map Production – Map Layout and Exporting Map in Different Formats	
Unit- 3	Geospatial Analysis and Multi-Criteria Decision Making for Disaster Management Emergence of GIS Technology in Application Areas: Land Use and Land Cover Planning, Urban and Rural Area Development and Planning, Land Surveying, Smart City Planning, Medical Logistics, Watershed Management, Solid Waste Management, Disaster Management, Land Record Information System. Application in Agriculture, Water Recourse Management, Weather and Climate, Forestry and Engineering, Hazard Zonation mapping, Human Induced Hazard mapping, Disaster Response Planning. Introduction of a Framework for Planning and Decision Making, Principles and Components of Multiple-Criteria Decision Making (MCDM), Multiple-Criteria Evaluation Methods/Techniques, MCDM Techniques used in Geospatial Modelling and Data Analysis, Introduction to Analytic Hierarchy Process (AHP), Basic Principles of AHP, Effect Table, Pair Wise Comparison, Different Kinds of Methods in Pair Wise Comparison, Standardization, Consistency, Weightage, Performance Score.	
Unit- 4	Practical Application of Spatial Data Management [Familiarization with Virtual GIS: Q -GIS, ArcGIS, Google Earth, Web GIS, 4D GIS Software and Open-Source Intelligence (OSINT)]. Shapefile and Geodatabase Creation, Spatial Data Integration (Digitization), Point, Line, Polygon, Spatial Data Editing – Building	

	Topology, Non-spatial Data Integration – Attribute Tables Creation and Join Data, Non-Spatial Data Editing – Add or Delete Column/Field in Attribute Data, Search, Selection and Queries of Spatial and Non-Spatial Data; Vector Data Analysis – Extraction, Overlay, Proximity; Raster Data analysis – Arithmetic Functions, Relational Functions, Conditional Functions, Matrix Overlay, Overlay Weightage Analysis, Spatial Multi-Criteria Decision Modelling for Site Selection (Using AHP); Neighbourhood Operations – Interpolation Function, Connectivity and Network Analysis – Shortest Path Analysis, New Route Analysis, New Closet Facility Analysis, Service Areas Analysis, Best Route, Origin-destination Cost Matrix, Map Design – Types of Maps and Cartographic Symbolisation of Maps, Symbolization, Pattern and Shading Techniques of Different Types of Maps, Map Production – Map Layout and Exporting Map in Different Formats.	
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Suggested Readings:

- Anji Reddy, M. (2004). Geoinformatics for Environmental Management. B.S. Publications
- Bhatta, Basudeb. (2013). Remote Sensing and GIS- 2nd Edition. Oxford University Press
- Chang, T. K. (2002). Geographic Information Systems. Tata McGrawHill
- ESRI Map Book: GIS the Language of Geography by ESRI-USA ESRI. (2004). Satellite Geodesy. Gunter Seeba
- Heywood, I. Cornelius, S. CrverSteve. (2003). An Introduction to Geographical Information Systems. Pearson Education
- Pandey Shivam and Tripathi, Shashikant. (2020). Basic concept of Remote Sensing, GPS and GIS. Sankalp Publication
- Ram Mohan Rao. (2002). Geographical Information Systems. Rawat Publication
- Tar Bernhardsen. Geographical Information Systems. John Wiley
- Wise S. (2002). GIS Basics. Taylor Publication

Note: Latest edition of relevant reports/publications/ text books may be used.

YEAR 2

SEMESTER III: PAPER- 5

Course Title	Environmental Social Governance (ESG) and Climate Risk		
Course Code	MPSDM - 117	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Value Addition Paper
Credit	Two (2)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop concept of Environmental, Social and Governance (ESG) and climate risk. Learners will be equipped with knowledge to address environmental and social risk associated with climate change. Learners will be able to understand the significance of ESG framework used by investors and stakeholders to addresses environmental impact, social responsibility, and governance.			
Course Outcomes			
After the successful completion of the course, students will be able to:			
➤ Outline the relationship between ESG risk and climate risk.			
➤ Identify causes and effects of climate change.			
➤ Assess ESG parameters of companies and propose sustainable and responsible solution for the organizations.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Environmental Social Governance (ESG) and Climate Risk		
Course Curriculum		(Total Lecture hours- 30)
Unit No.	Content	Lecture Hours
Unit- 1	Climate Change and Associate Risks Concept of climate change, Cause and effect of climate change, Climate change and its trends, Greenhouse Gas (GHG) Emissions; Cascading Climate Risk, Climate Risk Management; Physical risk and transition risk, Challenges of transition risk; Carbon footprint, Decarbonization, Significance of renewable energy, Sustainable Development Goals (SDGs), Intergovernmental Panel on Climate Change (IPCC), Net zero, GHG accounting and carbon markets, Nature-based Solutions (NbS).	15
Unit- 2	Environmental Social Governance (ESG) Concept of ESG, Significance of ESG, Integration of ESG to companies, Business and Corporate Social Responsibility (CSR), Stakeholder engagement, Corporate governance mechanism and ethical practice, ESG Scorecards of listed companies; Security Exchange Board of India (SEBI) Guidelines to ESG Metrics, Reporting and Disclosure, Green and Sustainable Finance. Concept of Environment Impact Assessment (EIA), EIA Tools and Analysis, Concept of Social Impact Assessment (SIA), SIA Tools.	15

Suggested Readings:
➤ Ghosh, Amitav. (2016). The Great Derangement: Climate Change and the Unthinkable. Penguin Books ➤ Govt initiatives towards Net Zero. ➤ Kashwan, Prakash. (2022). Climate Justice in India. Cambridge University Press ➤ Kumar, Sanjay; Singh, Suraj Kumar; Kanga, Shruti; Meraj, Gowhar; Farooq, Majid and Nathawat, M.S. (2024). Disaster Management and Environmental Sustainability. Scrivener Publishing LLC. ➤ IPCC reports

- Ministry of Environment. Forest and Climate Change reports
- Ramesh, Mridula. (2018). The Climate Solution: India's Climate Change Crisis and What We Can Do About It. Hachette India
- Shiva, Vandana. (1988). Staying Alive: Women, Ecology and Development. South End Pr.

Note: Latest edition books may be used.

YEAR 2

SEMESTER III: PAPER- 6

Course Title	Disaster and Development		
Course Code	MPSDM- 118	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Third	Course Category	Core Paper
Credit	Two (2)	Course Type	Theory
Max. Marks	100 = 30 (Internal Assessment) + 70 (External Assessment)		
Course Overview			
This course aims to develop an understanding on disaster and development and its interlinkages with climate change and sustainable development. Learners will be able to understand the significance of disaster risk induced development. The course will equip the learners to comprehend the contemporary socio-economic perspective of disaster and development			
Course Outcomes			
After the successful completion of the course, students will be able to:			
➤ Understand the concept of disaster and development, and its mechanism.			
➤ Integrate disaster risk reduction into development.			
➤ Contribute to disaster risk induced plan & policy.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	10
	Assignment	10
	Performance	5
	Attendance	5
End Semester	Written Components (Closed Book)	70

Disaster and Development		
Course Curriculum		(Total Lecture hours- 60)
Unit No.	Content	Lecture Hours
Unit- 1	Introduction to Disaster and Development Concept of Disaster and Development, Process of Disaster and Development, Overview of Social, Economic, Environmental and Political vulnerabilities; HRVC Analysis, Pressure & Release Model, Interlinkages between Climate Change, Disasters and Sustainable development, Project proposal development. Case Studies	15
Unit- 2	Nexus between Disaster and Development Interlinkage between Disaster and Development, Impact of Disaster on Development, Impact of Development on Disaster; Mainstreaming of Disaster Risk Reduction in Development, Core purpose of policies and projects. Case Studies of Disaster and Development.	15

Suggested Readings:

- Collins, Andrew E. (2009) Disaster and Development. Routledge
- Cuny, Frederick C. (1994). Disasters and Development. Intertect Press
- Aronsson-Storrier, Marie and Breau, Susan C. (2024). Research Handbook on Disasters and International Law. Elgar
- Clarke, Matthew and Zhao, Xinyu (Andy). (2023). Elgar Encyclopaedia of Development
- Kapucu, Naim and Liou, Kuotsai Tom. (2014). Disaster and Development: Examining Global Issues and Cases. Springer Publication
- Uitto, Juha I. and Shaw, Rajib (2015). Sustainable Development and Disaster Risk Reduction. Springer
- Mutter, John C. and Deraniyagala, Sonali (2025). Disaster and Development: An Earth Institute Sustainability Primer. Columbia University Press
- Singh, Amita; Punia, Milap; Haran, Nivedita P. and Singh, Thiyam Bharat. (2022). Development and Disaster Management: A Study of the Northeastern States of India
- Singh, Jagbir. (2013). Disaster Management: Future Challenges and Opportunities. I K International Publishing House Pvt. Ltd.

Note: Latest edition of relevant reports/publications/ text books may be used.

Course Structure

MA/M.Sc. - Public Safety and Disaster Management (MPSDM) (2-Year Program)

CREDIT DISTRIBUTION IN FOUR SEMESTERS (80 CREDITS IN TOTAL)

SEMESTER 4

Summarized Credits for the M.A. /M.Sc. – Semester 4 (Compulsory)										
Course Code	Course	Full Mark	Mid Semester		End Semester		Teaching Scheme			Hour
			FM	PM	FM	PM	Credit	TH	PR	
MPSDM - 119	Internship-II	100	-	-	100	40	4	0	4	120
MPSDM - 120	Dissertation	100	-	-	100	40	16	0	16	240
TOTAL		300					20			360

Outcome-Based Programme MDMS- 120

FM: Full Marks, PM: Pass Marks, TH: Theory, PR: Practical

YEAR 4

SEMESTER IV: PAPER- 1

Course Title	Internship- II		
Course Code	MPSDM- 119	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Fourth	Course Category	Internship
Credit	Two (2)	Course Type	Practical
Max. Marks	100 = 100 (External Assessment)		
Course Overview			
This course is designed to provide the first-hand field exposure, enables to gain practical experience and real-world insights. Learners will be professionally equipped with skills, knowledge and competencies to effectively function within the organization setting. The course will build expertise in the key areas such as disaster management, climate change, sustainable development and related interdisciplinary fields, and prepare the learners to address contemporary global challenges with confidence and professionalism.			
Course Outcomes			
After the successful completion of the course, students will able to:			
➤ Integrating academic knowledge with field practices.			
➤ Develop communication and coordination skills along with critical thinking skills.			
➤ Developing understanding of organizational culture, workplace etiquette, and accountability.			

Assessment Pattern		
Assessment	Description	Marks
Mid Semester	Written Examination	-
	Assignment	-
	Performance	-
	Attendance	-
End Semester	Report writing, Presentation & Viva Voce	100

Internship- II		
Course Curriculum		(Total Lecture hours- 120)
Unit No.	Content	Practical Hours
	Inhouse Attachment All the learners will be attached with any of the agencies/organisation/institutions for the period of 60 days. They are expected to work for the host organization under the guidance/supervision of an experienced professional and supervision of an assigned faculty of the department. During this period, learner will take up regular activities as per the given assignment/ given format. Learners are required to submit a report based on the activities performed by them during the internship along with the daily logbook and field diary. Learner will be evaluated by his/her supervisor in the organization during the internship period. A confidential performance appraisal report duly filled by supervisor and sent to the Head of the Department at Jharkhand Raksha Shakti University, directly. At the end of the semester, students will be evaluated based on the performance appraisal report, internship report, class presentation and viva-voce.	120

YEAR 4

SEMESTER IV: PAPER- 2

Course Title	Dissertation		
Course Code	MPSDM- 120	Programme	M.A./M.Sc. Public Safety and Disaster Management (Two Year)
Semester	Fourth	Course Category	Dissertation
Credit	Sixteen (16)	Course Type	Practical
Max. Marks	100 = 100 (External Assessment)		

Course Overview

This course is designed to develop a holistic idea through independent original research project work which enables learners to apply their knowledge, skills and methodologies acquired to investigate significant problem within the field of study. Learners will work under the guidance of faculty supervisor, and will identify the research problem, conduct comprehensive literature review, design and implement apt research methodology, analyse and interpret findings and present the result in a form of structured thesis. The course develops the academic writing skill, systematic and critical thinking, analytical ability and ethical practice of research.

Course Outcomes

After the successful completion of the course, students will able to:

- Formulate research problem, conduct the comprehensive literature and identify research gap.
- Design appropriate research methodologies such as data collection and analysis techniques.
- Develop writing, interpretation and oral skills to produce and defend Dissertation/Thesis.
- Integrate perspectives with the best practices.

Assessment Pattern

Assessment	Description	Marks
Mid Semester	Written Examination	-
	Assignment	-
	Performance	-
	Attendance	-
End Semester	Report writing, Presentation & Viva Voce	100

Dissertation		
Course Curriculum		(Total Lecture hours- 240)
Unit No.	Content	Practical Hours
	Dissertation Development All the learners are required to select a topic of their interest relevant to the field of study discipline and develop an original research work either building a research based on the internship undertaken in the current semester (preferably) or on the proposal developed in the previous semester (as per annexure of suggestive list of topics). They are to work under the guidance/supervision of an assigned faculty of the department (compulsory) and experienced professional as additional supervisor (in case of internship developed as dissertation). During this period, learner will have to be in regular contact with the faculty supervisor and complete the assigned tasks approved by the supervisor. Learners have to write and submit a dissertation report (BLACK hard binding with golden embossment) as per the specification/guidelines given by the department. At the end of the semester, learners will be evaluated (defending thesis via viva-voce as guidelines given by the department) according to the criteria mentioned in the Regulation of the program of study.	240