

JHARKHAND RAKSHA SHAKTI UNIVERSITY, RANCHI



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

Course Framework

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

DEPARTMENT OF PUBLIC SAFETY & DISASTER MANAGEMENT

[Duration: Two Year]

1. Introduction of the Programme

The M.A./M.Sc. in Public Safety and Disaster Management is a specialized, multi-disciplinary post-graduate programme designed to cultivate the expert - level knowledge and practical proficiency in anticipating risks, building resilient communities and contribute to sustainable development. Building upon the foundational concept acquired at the undergraduate level, this programme deepens learners' understanding of diverse domains – including agriculture, anthropology, history, business studies, geography, geology, engineering, environmental studies, mass communication, medical science, natural science, political science, psychology, sociology, traditional knowledge and practices – and their integrated application with the public safety and disaster management. At the master's level, public safety and disaster management transcends basic understanding of hazard, vulnerability, exposure, risk and capacities which focus on the specialised, research-driven and technology sophisticated methodologies. Learners are engaged with cutting-edge advancements in areas such as disaster governance, disaster medicines, disaster forensic, remote sensing and geographical information system, humanitarian conflict, supply chain management, climate change and emergency response management. The programme also offers focussed training on community-based disaster risk reduction, project development and reviews of policies and plans.

The comprehensive academic rigor and practical training and research-driven innovation equip graduates to make meaningful contributions at local, national and global level – to ensure safer, more prepared and resilient future through precise decision making, system and critical thinking essential for addressing complex real-world/life challenges. M.A./M.Sc. learners are trained not only to conduct reviews of hazard scenarios but also to contribute to the evolution of innovative solutions to identify and reduce vulnerabilities through action-

based research and grassroot level studies. The emphasis on the integrity, impartiality and ethical response during disaster situation ensures that graduates play the pivotal role in delivering humanitarian responses and maintaining the public trust during risk communication.

Graduates of M.A./M.Sc. in Public Safety and Disaster Management are prepared for leadership roles in disaster management authorities, banking sectors, development sectors, international and national non-governmental organizations, academic institutions, public and private sectors. The advance skill sets and specialized knowledge gained through this programme position them to influence the disaster policy reviews, conduct independent research and drive consultancy services in the field of disaster management and public safety.

In the world where new and emerging disasters are at surge, the M.A./M.Sc. in Public Safety and Disaster Management empowers professionals to respond with unwavering commitment to safeguard lives, livelihoods and the environment.

2. Program Objective

Program objectives describe the quality of skills, knowledge and behaviours learners acquire as they progress through the programme. The following programme objectives are endorsed for the M.A./M.Sc. in Public Safety and Disaster Management (Two Year):

- To develop a highly skilled professionals with multidisciplinary knowledge and practical skills and expertise in disaster and public safety.
- To foster comprehensive understanding of disaster and development context focusing on technological and practical application for sustainable development.

- To enable critical thinking, foster resilience building to design effective disaster risk reduction strategies.
- To cultivate professional and ethical values to respond during emergency situation.
- To build professional network and actively engage with communities at the grassroot level.
- To prepare them towards enhance career opportunity and employability.

3. Program Outcome

As defined by the National Assessment and Accreditation Council (NAAC), programme outcome reflects the key competencies the learners are expected to achieve by the end of the course. Graduates of the M.A./M.Sc. in Public Safety and Disaster Management will acquire advanced multidisciplinary expertise, which enables them to apply theoretical, conceptual and scientific principles effectively in safety and disaster studies. They will demonstrate the ability to work across multidisciplinary domains, use-research based approaches for problem solving and innovative strategies, and adhere to ethical and legal standard in professional practice. These outcomes ensure graduates are well-prepared for responsibilities, roles in disaster management, public safety and related fields.

The program outcomes for M.A./M.Sc. in Public Safety and Disaster Management (Two Year) are as follows:

Programme Outcome	Description
Advance Disciplinary Knowledge	To develop an advance disciplinary knowledge with a comprehensive and in-depth understanding of the theoretical foundations, scientific principles and interdisciplinary dimension of disaster management to build a holistic perspective on disaster risk by integrating divers' domains – such as environmental science, geography, geoinformatics, engineering and technology, social science, governance, public health and safety.
Critical Problem Solving and Emergency Reasoning	To cultivate advance critical problem-solving abilities and reasoning skills essential for decision making in high-risk and uncertain situations using structured problem-solving frameworks, risk assessment techniques and scenario-based planning.
Integration of Modern Scientific Tools and Technologies	To proficiently operate and utilize the cutting-edge techniques – remote sensing, geographical information system, global positioning system, drone technology, data analytics, early warning systems, and simulation modelling – while critically understanding their principles, applications and limitations.
Ethical Governance and Accountability	To uphold integrity, transparency and responsibility in ethical decision making in complex and high-pressure situation prioritizing human dignity, equity and social justice.
Professional Communication	To convey complex information with clarity, accurately, timely and responsibly through crisis messaging, technical reporting, media interaction, risk

	communication and community outreach in culturally sensitive manner in both routine and emergency context.
Societal Impact	To contribute in promoting public safety through disaster literacy, community-based disaster risk reduction, capacity building and awareness generation at grassroot level by addressing the real-world challenges, strengthening the local coping mechanism and fostering sustainable development.
Collaborative and Leadership Excellence	To demonstrate and develop inter-disciplinary collaborations, stakeholder engagement, inclusive leadership and team management for efficient and effective decision making in dynamic environment.
Commitment to Lifelong Scholarly Advancement	To cultivate intellectual curiosity, critical inquiry and contemporary research mindset towards emerging global challenges and evolving best practices in disaster risk reduction, climate resilience and humanitarian response.

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	Cred -it	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

Course Structure

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

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

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

ABBREVIATION

- FM: Full Marks
- PM: Pass Marks
- TH: Theory
- PR: Practical
- EC: Elective Course