

Course Content

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| Course ID | DMG 511 |
| Course Name | Fundamentals of Disaster Risk Management |
| Course Content | Risk, hazard and disaster. Science of various types of natural and human-induced hazards. Principles of disaster risk management. Resilience and vulnerability. Disaster risk reduction (DRR) in the context of risk response and risk transfer, DRR in the context of recovery. Multi-hazard risk management. Field visit and study. |
| Learning Outcome | Understanding of various types of natural and human-induced hazards and their potential for causing disasters and general principles of disaster risk reduction and mitigation. |
| Course ID | DMG 512 |
| Course Name | Disaster Preparedness, Response and Recovery Strategies |
| Course Content | Strategies for strengthening DRR. Disaster preparedness planning. Vulnerability management planning. Emergency preparedness and evacuation planning. Development of early warning system, Risk insurance. DRR in the context of short-term and long-term recovery. Rehabilitation of victims and reconstruction of damaged infrastructures applying the principle of 'build back better'. Providing emergency services including medical team with physiotherapists, psychologists, psychiatrists, and counselors. Post-disaster trauma management. Gender responsive approaches. Local, national, regional, and international drivers. Coordination among local, national, regional, and international activities. National and international supports. Mobilization of aids and grants. |
| Learning Outcome | Demonstrate skills to prepare strategies for disaster preparedness, response, and recovery. |
| Course ID | DMG 513 |
| Course Name | Tools and Techniques in Disaster Risk Management |
| Course Content | Geographic information system (GIS)for disaster risk reduction. Constituents of vector and raster models. Utilization of spatial information for decision-making. Remote Sensing Techniques. Geo- and hydro-informatics. MIS. Social and environmental impact assessment. Damage and disaster risk assessment. |
| Learning Outcome | Develop skills of using various tools and techniques commonly applied in disaster risk management and using those for decision making. |
| Course ID | DMG 514 |
| Course Name | Research and Analytical Methods |
| Course Content | Research typologies, Basic statistical and sampling techniques, Survey techniques, Qualitative and quantitative research, Qualitative methods: CRA, PRA, KII, Case study, Interview, Narratives, Content analysis and others. Software for qualitative and quantitative data analysis. Literature Review. Field visit and survey. Dissertation writing. |
| Learning Outcome | Develop research skills that can be applied in subsequent practice, independent study projects and dissertation writing |

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| Course ID | DMG 611 |
| Course Name | Disaster Risk Reduction and Sustainable Development |
| Course Content | Sustainable development and livelihood. Linkages between disasters and development. Disaster-Development continuum. Integrating risk reduction perspective in disaster risk management stages, Mainstreaming disaster risk reduction. Strategies of mainstreaming disaster risk reduction. Development policy and planning for disaster management, Mainstreaming DRR in all development activities, Maintenance of public infrastructure. |
| Learning Outcome | Demonstrate skills of identifying linkages between disasters and development and developing disaster risk reduction as a cross-cutting element. |
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| Course ID | DMG 612 |
| Course Name | Community Based Approaches to Disaster Risk Management |
| Course Content | Community vulnerability management plan. Community risk assessment. Community based disaster management. Household risk mapping. Community based adaptation. Indigenous knowledge for reducing disaster risks. Facilitating self-help initiatives. Sustaining long-term community-based disaster risk management. Gender responsive approaches. |
| Learning Outcome | Enable to facilitate communities to develop disaster preparedness and recovery plans |
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| Course ID | DMG 613 |
| Course Name | Climate Change Adaptation and Mitigation |
| Course Content | Global phenomenon of climate change and its local and regional impacts in the form of increased frequency, intensity, and magnitude of disasters. Policies, strategies, and mitigation measures for reducing climate change impacts. Community adaptation strategies. International protocols and treaties. Impacts of climate change in Bangladesh. |
| Learning Outcome | Develop awareness of global climate change with corresponding local adaptation and mitigation measures to reduce its impacts. Demonstrating the ability to propose strategies for adaptation |
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| Course ID | DMG 614 |
| Course Name | Organizational and Policy Context of Disaster Risk Management |
| Course Content | Multisectoral approach for DRR. Roles of government/NGO/international funding agencies/private sectors/armed forces (may be taught in 'case-study' format) in disaster risk reduction. Cluster approach and interagency coordination. Humanitarian accountability practices. Code of conduct. Standing Orders. Policy formulation. Program and project implementation. |
| Learning Outcome | Explore roles of different actors such as the government, non-governmental organizations (NGOs) and international funding agencies involved in disaster risk management. Demonstrate skills of developing organizational framework for defining policy and practice in this field. |
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| Course ID | DMG 615 |
| Course Name | Emergency Response and Humanitarian Assistance |
| Course Content | Emergency conditions and humanitarian crisis. Humanitarian response. Mass atrocities. Principles and standards of humanitarian assistance. Refugee, stateless person, and displaced person. Forced migration. Humanitarian intervention. Tools and techniques of need assessment. Emergency response planning: |

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| | human resources, storage of relief goods, selection of beneficiaries, distribution of relief goods, accountability, and quality. |
| Learning Outcome | Develop skills for preparing effective response and assistance mechanism for emergency and humanitarian crisis conditions. Equip students with understanding the needs of the affected population on the basis of their socio-economic condition, nature of crisis and available resources. |
| Course ID | DMG 616 |
| Course Name | Disaster Communication, Media, and Journalism |
| Course Content | Communication and dissemination techniques. Principles of Disaster Journalism, Public awareness campaigns. Training and education programs for mass people. Roles of media, internet, and telecommunications. Roles of social media. Roles of unmanned aerial vehicles for disaster risk reduction. |
| Learning Outcome | Understanding of different methods for communicating disaster risk and preparedness measures and building public awareness Demonstrate skills to develop disaster risk and vulnerability reduction training and public awareness programs and/or to contribute to such programs. |
| Course ID | DMG 617 |
| Course Name | Urbanization and Disasters |
| Course Content | Impacts of rapid urbanization. Urban bias in development. Principles of urban planning. Urban services and infrastructure. Interagency coordination. Hazards and disasters in urban areas. Policy, planning and strategies for mitigating and reducing risks of urban disasters. Climate change adaptation in urban areas. |
| Learning Outcome | Develop understanding of the link between uncontrolled urban growth and its potential for resulting disasters. Demonstrate skills of preparing policies, plans and strategies for managing such disasters. |
| Course ID | DMG 618 |
| Course Name | Built Environment in Disaster-Prone Areas |
| Course Content | Impacts of natural hazards on the built environment. Reconstruction and strategies for 'build back better' and 'building-for-safety'. Retrofitting existing infrastructures. Disaster shelters. Emergency housing. Building codes. Climate change adaptation in the built environment. |
| Learning Outcome | Explore methods of building safer buildings in disaster-prone areas, construction of disaster shelters and provision of post-disaster emergency housing. Develop awareness of the key aspects of building design and construction that can contribute to creation of resilient habitats before, during and after disasters. |
| Course ID | DMG 619 |
| Course Name | Disasters and Disaster Management Practices in Bangladesh |
| Course Content | Types of natural hazards: flood, cyclone, drought, earthquake, river erosion, land slide, tornado, tsunami, arsenic, salinity. History of disasters in Bangladesh. Evolution of disaster management practices and disaster risk reduction strategies. Institutions. Community level resilience. Sharing risk |

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| | profile and portfolio with relevant stakeholders and institutes. Field visit and study. |
| Learning Outcome | Familiarize students with different types of disasters that the country faces and the disaster management options practiced in the country. |
| Course ID | DMG 620 |
| Course Name | Special Studies |
| Course Content | Special issues on contemporary and future disaster risks, resilience, sustainability and ground realities. |
| Learning Outcome | Understanding the special issue and demonstrating the ability to apply the knowledge |
| Course ID | DMG 621 |
| Course Name | Public Policy Analysis |
| Course Content | Meaning, nature, scope, its various models, implementation, and analysis of public policy. Public policy development process. Public issues, problems and needs regarding disaster risk reduction. The Growth of Policy and the Policy of Growth. Morality and Policy: The Regulation of Behavior. |
| Learning Outcome | Understanding issues and methods of public policy analysis. Ability to use practical methods for analyzing public policy issues. |
| Course ID | DMG 622 |
| Course Name | Data Management and Forecasting |
| Course Content | Development of early warning system. Principles and techniques of data management for forecasting various hazards and disasters. Forecasting climatic, geological and technological disasters. Tools and key areas in comprehensive data management. |
| Learning Outcome | Enable to forecast climatic, geological and technological disasters. |
| Course ID | DMG 623 |
| Course Name | Disaster Risk, Resilience and Vulnerability Assessment |
| Course Content | Concepts of resilience and community resilience. Methods of resilience assessment. Community capacities and capacity analysis. Resource mapping. Key elements of effective risk analysis and management. Strategic management and vulnerability analysis. Mitigating and reducing risk exposure. Decision-making and vulnerability analysis. |
| Learning Outcome | Demonstrate ability to assess resilience and vulnerabilities. |
| Course ID | DMG 624 |
| Course Name | Human Rights and International Humanitarian Law |
| Course Content | Introduction to international humanitarian law. Historical origin and the development of Human Rights and International Humanitarian Law. Conduct of hostilities. Methods and principles of protection of persons. International and regional treaties and customs. Emergence of Hague and Geneva conventions, marten's clause. |

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| Learning Outcome | Dissemination of international humanitarian law and implementation of protecting human and human rights. Understanding of enforcement mechanisms |
| Course ID | DMG 625 |
| Course Name | Conflict, Negotiation and Mediation |
| Course Content | Causes and impacts of conflict. Principles and methods of negotiation. Modes of Conflict Management. Mediation essentials. Mediation in practice. Functions of the Mediator. Policies and Procedures in Preventing or Resolving Disputes, Advocacy and other alternatives |
| Learning Outcome | Explain the nature and sources of conflicts and features of resolution methods including mediation, negotiation, advocacy and other alternatives. Develop the strategy formulation, planning and research skills required for mediation, negotiation and advocacy. |
| Course ID | DMG 626 |
| Course Name | Anti-terrorism Awareness and Strategies |
| Course Content | Risks, threats and types of international terrorism. Concepts of radicalism. Principles, policy and strategies of counterradicalism and de-radicalism. Terrorist ideologies, aims, beliefs & motivations. International Policing Policy. Terrorism & human rights. |
| Learning Outcome | Enable to be aware of terrorism and to prepare plan, policy and strategies for counterterrorism. |
| Course ID | DMG 627 |
| Course Name | Gender and Disaster Risk Reduction |
| Course Content | Gender and Sex. Power. Gender and community based DRR. Mainstreaming gender in DRR strategies, Integration of gender perspective in DRR legislations, Policies and programs for meeting the targets of SDG, Increased understanding of gender concerns for developing resilience building and adaptation strategies and mechanisms with special reference to Bangladesh. Gender analysis in natural and human-induced disaster context. Gender-based violence in disaster context. Development of Gender impact analysis. Gendered analysis of resilience and vulnerability. Gender responsive preparedness, response, recovery and reconstruction. |
| Learning Outcome | Demonstrate ability to apply gender-responsive disaster risk-reduction, adaptation and humanitarian crisis management strategies |
| Course ID | DMG 628 |
| Course Name | Field Visit and Study |
| Course Content | Visiting a site (either in Bangladesh or in any foreign country) for evaluating or investigating the scope of DRR or Climate Change Adaptation or Humanitarian assistance. Conducting qualitative and/or quantitative study. Report/ Research paper writing. |
| Learning Outcome | Demonstrate ability to conduct field study following the appropriate scientific method and to prepare report or research paper. |