

Self-Study Report (SSR) - Criterion-1

Information to be submitted by Departments/Directorates/Centres for Each Programme Offered

1	Department/Directorate/ Centre/Institute:	Department of Geography & Disaster Management	
2	Name of the Programme Offered:	<p style="background-color: yellow;">M.A./ M.Sc. Disaster Management</p> <p>Programme Outcome: The incidence of natural and human induced disasters has assumed alarming dimensions both over temporal and spatial scales, resulting in widespread loss of life and assets globally. Collaborative efforts involving all stakeholders are required at various levels for making Disaster Risk Reduction (DRR) mechanism effective. The Postgraduate programme in Disaster Management, (M.A./ M. Sc.) being offered by the University of Kashmir is an academic initiative expected to provide significant contribution towards addressing the various dimensions of Disaster Risk Reduction in this fragile mountainous environment. The students of this programme are given a comprehensive exposure to the various facets of disaster management ranging from prevention, mitigation, preparedness to disaster response. The programme aims to prepare a pool of skilled human resource personnel who will become qualified and professional disaster managers of future. The graduates of the programme are expected to be equipped with a sound knowledge of theory and practical domains of the subject with professional execution capabilities. In addition, the course offers substantial career opportunities in various regional, national, and international organizations.</p>	
3	Departmental website link of the complete/updated syllabus:	https://geogrd.uok.edu.in/Main/ViewPage.aspx?Page=6cdc1064-49be-4fdf-811e-d9feed75ccf4&active=lnk0	
4	Number of Courses in the Programme?		40MSDM
5A	Number of New Courses introduced in the Programme since 2019?		8
5B	List of New Courses introduced since 2019:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Description</i>
	DM20107D CE	Disaster Prevention and Early Warning Systems	Course objective: The objectives of this course are to introduce the concepts disaster prevention in adequate manner, familiarizing the learners with important national and international agencies for the Prediction, Forecasting and Early Warning Systems for coordinated efforts in disaster mitigation and resilience.

			<p>Course Outcome: The course will provide an understanding of the conceptual and dynamic aspects about the technology-based Disaster Forecast, Prediction and Early Warning System as a means of capacity building with respect to various geological, hydro metrological disasters.</p> <p>Course Attainment: A comprehensive understating of the working of various organizations involved in forecasting and prediction and functioning of the early warning system technologies.</p>
	DM20108D CE	Global Disaster Scenario	<p>Course Objectives: The course has been devised to familiarizing the learners with spatio-temporal dynamics of disasters across the globe on account varying geological, hydro-meteorological, characteristics.</p> <p>Course Outcomes: The differences in geographic locations, topography, climate and developmental status lead to highly variable and complex disasters scenario across the globe.</p> <p>Course Attainment: The learners will understand why Asia-Pacific is the hub of major disasters followed by African countries, North and South America, European Union and USA in a decreasing order of intensity and will also be made familiar with DRR and mitigation strategies adopted across the globe.</p>
	DM20206D CE	Community Based Disaster Management	<p>Course Objectives: The present course is designed to promote understanding that the Community being the first respondent in the wake of a disaster requires special attention in order to mitigate the disaster impacts by means strengthening the relevant components of disaster management such as search and rescue, first aid and evacuation and short-term relief and rehabilitation.</p> <p>Course Outcomes: The principles, approaches and the comprehensive framework of CBDM is taught and learned by the students in the course.</p> <p>Course Attainment: the students would be able to make a rational choice amongst different CBDM Approaches.</p>
	DM20208D CE	Introduction to Seismic Risk Reduction	<p>Course Objectives: Earthquake being the one hazard that comes with no warning thus requires different kind of prevention mitigation and preparedness measures.</p> <p>Course Outcomes: The course is expected to familiarize the learners about the nature and consequences of earthquakes, magnitude and intensity, poor technological advancement for the prediction and forecasting of the earthquakes vis-à-vis the need of different preventive measures especially the structural measures. The course would make the learners aware about various traditional and modern architectural designs for buildings.</p> <p>Course Attainment: The course also aims at NDMA guidelines, National building codes and byelaws for construction of seismic resistant structures to mitigate the impacts of seismic disasters.</p>

	Dm20304D CE	Field and laboratory training for Disaster Management	<p>Course Objectives: In the field studies course each student shall have to prepare a brief field report on Disaster Management Plan (As per nature and purpose of the field).</p> <p>Course Outcomes: The Students will be able to understand the bio physical environment of the study area through field observation for research data analysis, interpretation, modelling etc. Students shall know how to organize, manage, and present data.</p>
	DM20305D CE	Disaster Economics	<p>Course Objectives: The course highlights the need of disaster compensation, Post disaster Impact Assessment, Estimation of disaster losses, Disaster risk finance and Insurance, global facility for disaster reduction and recovery and Institutional arrangements for disaster risk management, Catastrophe Modelling, SIA, Disaster Risk matrix and Modelling to the related hazards.</p> <p>Course Outcome: The course is aimed to help the learners in understanding the short- and long-term impacts of disasters on the economy of the affected community.</p> <p>Course Attainment: This course will help students in attaining the pre disaster related modelling techniques regarding the impacts of disaster and make countries/regions resilient and prepared to face disaster.</p>
	DM20306D CE	Flood Risk Management	<p>Course Objectives: The learners are expected to understand fundamental science of geo-hydrological processes, cycle and its dynamics for applications to mitigate the global water crisis for sustainable development through proper water resource management.</p> <p>Course Outcomes: The course is expected to train the learners for analysis of hydrological data and policy framing with the help of their systematic understanding of the dynamic nature of hydrological stores and fluxes, measurements, analysis, variability and forecasting.</p> <p>Course Attainment: Hands on application of various flood risk management techniques relating to different natural and manmade hazards.</p>
	DM20402C R	Psychosocial Care in Disaster Management	<p>Course Objectives: The course highlights psychological and social problems faced by the victims of disaster, relief providers. It also focuses on psychosocial care management at international, national and regional level and how to manage human behaviour through psychosocial care, provide Techniques of Psychological Care, learn Psychological First Aid.</p> <p>Course Outcome: The course is designed to understand the human behaviour during and after the disasters.</p> <p>Course Attainment: This course will help in attaining the expertise to prepare psychological support, psychological needs of victim, stress management and overall community participation in psychosocial care management at international, national and regional level.</p>

5C	Departmental website link in support of New Courses introduced in the Programme since 2019.	https://geogrd.uok.edu.in/Main/ViewPage.aspx?Page=6cdc1064-49be-4fdf-811e-d9feed75ccf4&active=lnk0	
6A	Dates of syllabus revisions during the last five years. (2019-2023)	17/12/2020 (Disaster Management)	27-09-2021 (Geography)
6B	Departmental website link in support of syllabus revisions.	https://geogrd.uok.edu.in/Main/Default.aspx	
7	Are Programme Outcomes (POs) clearly mentioned in the syllabus? (Y/N)		Y
8	Are the Course Outcomes (COs) mentioned for each course of the programme? (Y/N)		Y
9A	Does POs & COs have relevance to local, regional & global developmental needs? (Y/N)		Y
9B	List of courses addressing Local Needs:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM20206D CE	Community Based Disaster Management	<p>Course Objectives: The present course is designed to promote understanding that the Community being the first respondent in the wake of a disaster requires special attention in order to mitigate the disaster impacts by means strengthening the relevant components of disaster management such as search and rescue, first aid and evacuation and short-term relief and rehabilitation.</p> <p>Course Outcomes: The principles, approaches and the comprehensive framework of CBDM is taught and learned by the students in the course.</p> <p>Course Attainment: the students would be able to make a rational choice amongst different CBDM Approaches.</p>
	DM20208D CE	Introduction to Seismic Risk Reduction	<p>Course Objectives: Earthquake being the one hazard that comes with no warning thus requires different kind of prevention mitigation and preparedness measures.</p> <p>Course Outcomes: The course is expected to familiarize the learners about the nature and consequences of earthquakes, magnitude and intensity, poor technological advancement for the prediction and forecasting of the earthquakes vis-à-vis the need of different preventive measures especially the structural measures. The course would make the learners aware about various traditional and modern architectural designs for buildings.</p> <p>Course Attainment: The course also aims at NDMA guidelines, National building codes and byelaws for construction of seismic resistant structures to mitigate the impacts of seismic disasters.</p>
	DM20002G E t	Flood Hazard Management	<p>Course Objectives: Flood is a major and frequent disaster that affects about 12 percent of area of India directly and has other impacts on the economy of the country. In this context the course is intended to update the students about</p>

			<p>causes, types, effects, mitigation and response strategies for the flood hazard.</p> <p>Course Outcome: The course has huge importance when it comes to manage the floods in the Himalayan regions. The knowledge will help the students in getting involved in flood mitigation and policy making. The course is also important for conducting future research in this direction.</p>
	DM20308D CE	Disaster Sensitive Land Use Planning	<p>Course Objectives: Human practices have increased the risk and vulnerability towards disasters by many folds. Improper land use planning being the primary indicator of the human influence on the vulnerability.</p> <p>Course Outcomes: This course provides a framework and processes for analyzing the responsiveness of land use planning practice and their enforcement in relation to disaster risk reduction.</p> <p>Course Attainment: the students learn and understand the concept, relevance, principles, factors, drivers, and methodology of risk sensitive land use planning.</p>
	DM20004 OE	Community Based Disaster Management	<p>Course Objectives: The present course is designed to promote understanding that the Community being the first respondent in the wake of a disaster requires special attention in order to mitigate the disaster impacts by means strengthening the relevant components of disaster management such as search and rescue, first aid and evacuation and short-term relief and rehabilitation.</p> <p>Course Outcomes: The principles, approaches and the comprehensive framework of CBDM is taught and learned by the students in the course.</p> <p>Course Attainment: the students would be able to make a rational choice amongst different CBDM Approaches.</p>
9C	List of courses addressing Regional Needs:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM20106D CE	National and Regional Hazard Profile	<p>Course Objectives: The course is intended to familiarize the learners about the diverse disaster Profile of India including Jammu and Kashmir as a Multi-Hazard zone. The vulnerability of coastal states to cyclones and tsunamis; Himalayan states to earthquakes, floods, landslides and avalanches and the plain areas to drought and floods are the focus of studies apart from the epidemics and Traffic Accident disasters in India.</p> <p>Course Outcomes: The learners are expected to get acquainted with these hazards and disasters in the light of hazard exposure, risk and vulnerability of the specific areas and people across the country.</p> <p>Course Attainment: Besides, the course aims to enhance the understanding of local disaster scenario with the help of case studies of recent disasters in Jammu and Kashmir.</p>

	DM20107D CE	Disaster Prevention and Early Warning Systems	<p>Course Objectives: In this course the students will come to know about the technology-based Disaster Forecast, Prediction and Early Warning System as a means of capacity building with respect to various geological, hydro metrological disasters.</p> <p>Course Outcomes: The course also aims at familiarizing the learners with important national and international agencies for the Prediction, Forecasting and Early Warning Systems for coordinated efforts in disaster mitigation and resilience.</p> <p>Course Attainment: The students would be able to make a rational among national and international agencies for the Prediction, Forecasting and Early Warning Systems.</p>
	DM20201C R	Vulnerability Assessment	<p>Course Objectives: The course provides the updated knowledge about the concept of vulnerability and promotes understanding pertaining to various types of vulnerability and their different aspects. The course will also educate the students about developing vulnerability assessment models and their use in the national and regional hazard scenarios.</p> <p>Course Outcome: The gained knowledge will develop the students as disaster managers that will be helpful for them to get involved in R&D and planning and policy making projects.</p> <p>Course Attainment: Disaster management subject has gained huge repute and this course will prepare the students for various private and government job sectors.</p>
	DM20202C R	Disaster Response	<p>Course Objectives: The course takes a holistic view of the disaster response phase. During the course all the essential components of emergency and disaster response, logistics management, stake-holder's coordination and communication, minimum standards of living and disaster relief will be covered.</p> <p>Course Outcome: At the end of course, students will be able to respond to natural as well as man-made disasters, their capacity will be developed adequately to prioritize, plan, implement and monitor emergency and disaster response, based on needs and risks.</p> <p>Course Attainment: Capacity to design and perform research on the different aspects of the emergencies and disasters while demonstrating insight into the potential and limitations of science and stakeholders, its role in society and people's responsibility for how it is used.</p>
	DM20203C R	Disaster Rehabilitatio n, Reconstructi on &Recovery	<p>Course Outcome: The course is aimed to enhance the understanding of the students with respect to rehabilitation, reconstruction and recovery phase of disaster management.</p> <p>Course Objectives: After the completion of this course, students are expected to gain in-depth knowledge of physical, social and economic rehabilitation components and more importantly the learners will be able to know various rehabilitation processes and the services required in reconstruction phase.</p>

			<p>Course Attainment: This course will help in attaining and addressing –Build Back Better approach in RRR phase of disaster Management involving the restoration of the community livelihoods, amenities, critical infrastructure medical aid therapy, essential services, resource mobilization, Insurance and employment generation with the intervention of foreign authorities, local government authorities national and international NGO's.</p>
	DM20207D CE	Waste and Debris Management	<p>Course Outcome: The main outcome of this course is to broaden the understanding and provide the students awareness about the clean-up, removal, mitigate and disposal of debris and waste following a major disaster.</p> <p>Course Objectives: The main objective of this course is to broaden the insights regarding framing and identifying debris management plan, TDMS and challenges in managing debris at disposal site.</p> <p>Course Attainment: This course will help students to prioritize operation plan for disaster debris management as per given guidelines and how to handle the hazardous and non-hazardous debris and waste.</p>
	DM20002O E	Introduction to Human Induced Hazards	<p>Course Objectives: The course would particularly emphasize on disasters induced by humans its impacts and mitigation. Discussion on potential human hazards and effects would be focus here.</p> <p>Course Outcome: The students are expected to gain comprehensive knowledge about the types, causes, mechanism of occurrence, and spatial variability of human hazards. In addition, the course would cover the deliberations on various case studies.</p> <p>Course Attainment: The learners would come to understand the hazards which are caused by anthropogenic activities and its impacts.</p>
	DM20301C R	Disaster Mitigation and Preparedness	<p>Course Objectives/Outcomes: The present course is designed to provide the learners an in-depth understanding of how to minimize the impact of hazards and disasters through various structural and non-structural measures.</p> <p>Course Outcome: The students are expected to learn the significance of planning and preparedness involving different stake holders in a hierarchical and coordinated manner.</p> <p>Course Attainment: The learners would come to understand the importance of disaster mitigation and preparedness part of the disaster management cycle.</p>
	DM20302C R	Disaster Risk Assessment	<p>Course objective: The objective of the course is to familiarize students to the important components, approaches and other methods involved in risk assessment.</p> <p>Course Outcome: The students are expected to gain comprehensive knowledge of various concepts and qualitative and quantitative methods of disaster risk assessment.</p> <p>Course Attainment: Hands on application of various risk</p>

			assessment techniques pertaining to different natural hazards such as earthquakes, floods, wildfires etc.
	DM20306D CE	Flood Risk Management	<p>Course Objectives: The learners are expected to understand fundamental science of geo- hydrological processes, cycle and its dynamics for applications to mitigate the global water crisis for sustainable development through proper water resource management.</p> <p>Course Outcomes: The course is expected to train the learners for analysis of hydrological data and policy framing with the help of their systematic understanding of the dynamic nature of hydrological stores and fluxes, measurements, analysis, variability and forecasting.</p>
	DM20309D CE	Drug Menace and Human Trafficking	<p>Course Outcome: The menace of substance abuse in the young generation has assumed alarming dimensions worldwide. During this course the students will get to know about the international, national and local drug and narcotic scenarios and human trafficking in the world.</p> <p>Course Objective: The major objective of the course is to make students aware about the consequences of drugs abuse and human trafficking on society.</p> <p>Course Attainment: After the completion of the course the students will have a broad understanding about the national and international scenario of drug abuse and human trafficking.</p>
	DM20003G E	Hazard Profile of India	<p>Course Objectives: India's unique geo-climatic position makes it vulnerable to many hazards. The Spatio-temporal variability of India with respect hazards, vulnerability, exposure, and risk would be covered in this course.</p> <p>Course Outcomes: The course will also illustrate the causes and consequences of historical disasters in India.</p> <p>Course Attainment: This course will help in understanding the spatio-temporal variability at the national scenario for disaster Management involving government authorities at different levels.</p>
	DM20406D CE	Conflicts and Geopolitical Issues	<p>Course objective: This course is aimed at providing in-depth knowledge about the conflicts and geo-political issues that challenge the disaster management initiatives.</p> <p>Course Outcome: The understanding of the role and mandate of various global and regional organizations in Geo-political conflicts will also be dealt in the course.</p> <p>Course Attainment: In depth functioning and interventions of international, national and regional institutions to the problems of disaster -conflict interfaces.</p>
9D	List of courses addressing Global Needs:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM20101C R	Understandi ng Hazards	Course Objectives: This course has been designed to discuss the concept, nature, origin and types of disasters in the

		and Disasters	<p>backdrop of prevailing natural and anthropogenic disaster scenario across the world.</p> <p>Course Outcomes: The learners, apart from the historical background of disasters, will also understand the complexity of the disasters that originate due to Natural Processes, Human Interference with Nature or a combined effect of both natural process and human Activities.</p> <p>Course Attainment: The course is expected to make the learners aware about the genesis of disasters arising out of Geological, Geophysical, Hydro-meteorological, Environmental and other Anthropogenic Processes</p>
	DM20102C R	Fundamentals of Disaster Management	<p>Course Objectives: The course has been designed to promote the understanding of the basic concepts, principles, and significance of disaster management and its evolution with time.</p> <p>Course Outcomes: The learners are expected to understand the different phases of disaster management cycle right from Rescue, Relief, and Rehabilitation to Mitigation and Preparedness Phases. The learners will also understand the Policies and Principles of disaster management adopted at Local, National and International Levels to mitigate the impacts of disasters for the sustainable development.</p> <p>Course Attainment: The course also highlights the Disaster Management Policy of India and its organization at Centre, State and District Levels with reference to Jammu and Kashmir.</p>
	DM20103C R	Remote Sensing, GIS and GPS-I	<p>Course Objectives: The course has been designed to acquire knowledge regarding the use of modern tools and technology like RS, GIS and GPS in geographical studies and can apply this knowledge in any field of study.</p> <p>Course Outcomes: The students can acquire a broad knowledge regarding natural resources, various sensors and can developed idea about aerial photographs, satellite imagery etc. Through this course students can develop their base regarding the practical use of advanced technology in different field of geography through which they can prepare more accurate and precise maps of different cultural and physical features.</p> <p>Course Attainment: The course is expected to train the students for onscreen visualization, interpretation and management of the earth's surface features and processes from regional and global dimensions to handle the complexity of the disasters in the field of disaster management.</p>
	DM20105D CE	Understanding Geophysical Environment	<p>Course Objectives: This course aims at providing an in-depth understanding of geo-physical Environment.</p> <p>Course Outcomes: It aims to focus on internal structure of earth, tectonics, landform evolution, Ocean bottom relief, and coastal geomorphology. It also deals with</p>

			<p>various aspects of earth's heat budget, climate and its controls and processes governing Cryosphere.</p> <p>Course Attainment: The course is expected to impart the knowledge about the dynamics, role and impact of these geo-physical attributes on the disaster profiles across the globe.</p>
	DM20108D CE	Global Disaster Scenario	<p>Course Objectives: The course has been devised to familiarizing the learners with spatio-temporal dynamics of disasters across the globe on account varying geological, hydro-meteorological, characteristics.</p> <p>Course Outcomes: The differences in geographic locations, topography, climate and developmental status lead to highly variable and complex disasters scenario across the globe.</p> <p>Course Attainment: The learners will understand why Asia-Pacific is the hub of major disasters followed by African countries, North and South America, European Union and USA in a decreasing order of intensity and will also be made familiar with DRR and mitigation strategies adopted across the globe.</p>
	DM200010 E	Introduction to Natural Hazards	<p>Course objective: The objectives of this course are to introduce the concepts of the major hazards and are aimed at making students familiar with fundamentals of natural hazards.</p> <p>Course Outcome: The students are expected to gain comprehensive knowledge about the types, causes, mechanism of occurrence, and spatial variability of hazards.</p> <p>Course Attainment: The students will be equipped with the basic knowledge and skills of safety measures pertaining to various natural hazards such as earthquakes, floods, winds etc. that can be practiced at home and in the communities to reduce the earthquake induced losses.</p>
	DM20205D CE	Legal Frameworks in Disaster Management	<p>Course Outcome: The course has been designed to provide with in-depth understanding of international and national legal frameworks critical to disaster risk reduction and management.</p> <p>Course Objectives: At the end of the course, students will be skilled in critically evaluating legislation such as the Sendai Framework and the National Disaster Management Act, enabling them to effectively manage disaster risks and advocate for robust disaster resilience policies.</p> <p>Course Attainment: The course is designed to provide students with comprehensive knowledge of key international disaster management treaties and national disaster management legislation, gaining practical insights into their implementation and effectiveness.</p>
	DM20303C R	DRR and Developmen tal Planning	<p>Course Outcome: This course covers various aspects of disaster risk reduction its Evolution and Objectives during the last 3 decades and development planning for Sustainable Development.</p>

			<p>Course Objectives: The students are expected to understand linkages between disasters and developmental planning; institutional arrangements for planning at International, National and Regional level.</p> <p>Course Attainment: The student understanding of how developmental planning can minimize the losses associated with disasters by decreasing the risk associated with different hazards.</p>
	DM20305D CE	Disaster Economics	<p>Course Objectives: The course highlights the need of disaster compensation, Post disaster Impact Assessment, Estimation of disaster losses, Disaster risk finance and Insurance, global facility for disaster reduction and recovery and Institutional arrangements for disaster risk management, Catastrophe Modelling, SIA, Disaster Risk matrix and Modelling to the related hazards.</p> <p>Course Outcome: The course is aimed to help the learners in understanding the short- and long-term impacts of disasters on the economy of the affected community.</p> <p>Course Attainment: This course will help students in attaining the pre disaster related modelling techniques regarding the impacts of disaster and make countries/regions resilient and prepared to face disaster.</p>
	DM20401C R	Crisis Management and Incident Response System	<p>Course Outcome: The course has been designed to expose learners to potential crisis situations, functioning of crisis management and managing economy, essential services and media during crisis situations as well as in-depth study of the Incident Response System (IRS).</p> <p>Course Objectives: At the end of the course, the students will proficiently identify potential crises and understand the underpinnings of crisis management strategies.</p> <p>Course Attainment: Through this course students will gain comprehensive insights into crisis typologies and management frameworks. They will develop proficiency in the Incident Response System (IRS), focusing on its structure, operational procedures, and practical application in various crisis scenarios.</p>
	DM20403C R	Climate Change	<p>Course objective: The course has been introduced to enable students to get insight about the genesis of climate change, its causes and implications and its interrelationship with various disasters and introduction to various policy frameworks pertaining to climate change.</p> <p>Course Outcome: After studying this course students will be able to understand the physical basis of the natural greenhouse effect, various human activities are increasing emissions and challenges to livelihoods due to the ongoing climate change.</p> <p>Course attainment: Understanding of the various climate change mitigation and adaptation measures for climate change, restoration of ecosystem and various other nature-based solutions to climate change.</p>

	DM20407D CE	Disaster Management for Critical Infrastructure	<p>Course Outcome: This course is designed to acquaint the students with comprehensive knowledge about the identification, classification, and complexities of critical infrastructure.</p> <p>Course Objectives: By the end of this course to critically analyze the vulnerabilities of critical infrastructures to disasters, emphasizing their exposure levels, susceptibilities, and adaptive capacities.</p> <p>Course Attainment: The course will equip the students to understand and analyze the disaster management strategies across various sectors including healthcare, education, and utilities, ensuring enhanced protection and resilience of critical infrastructures.</p>
	DM20408D CE	Disasters and Public Health	<p>Course Outcome: This course is designed to introduce students to public health impacts of disasters, i.e. diseases, injuries and management of the disaster site.</p> <p>Course Objectives: The main objective of the course is to prepare the students for the response to public health crises during disasters.</p> <p>Course Attainment: After the completion of the course the students will have a broad understanding of the disaster epidemiology, disaster site management, community health management, medical and health response to different disasters and role of IEC and technology in health management during disasters.</p>
10A	Does the Programme offer focus on Employability/ Entrepreneurship/ Skill development courses? (Y/N)		
10B	List of Employability Courses :		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM20104C R	Remote Sensing, GIS and GPS-II (Practical)	<p>Course Outcome: This course provides the important skills, ability and exercise to the students in different domains of geospatial technologies. It prepares the students adequately in different techniques of spatial data interpretation and analysis for real time problem solving.</p> <p>Course Objectives: The practical course provides hands on exposure to our students in various remote sensing and GIS softwares.</p> <p>Course Attainment: The students are well equipped to work independently or in team for providing solutions to problems in a GIS environment.</p>
	DM20204C R	Geospatial Tools for Disaster Management	<p>Course objective: To understand and apply the geographical information systems, including remote sensing (RS) to the real-world problems in Disaster Management.</p> <p>Course Outcome: students will get hands on experience on how satellite data and GIS and field observations can help in a better way to retrieve essential information for disaster risk reduction.</p>

			Course Attainment: Damage assessment associated with a particular disaster and mapping critical infrastructure at risk, pre and post disaster scenarios are expected to be covered.
	DM20405D CE	Environment Impact Assessment and Environment al Management Programme	<p>Course Outcome: This course is designed to introduce students to Environmental Impact Assessment. The focus is on the rationale and methodology of integrated environmental impact assessment, including consideration of the relevant bio-physical, social, cultural, economic and human health aspects of development proposals, programs and policies. The Case studies will illustrate aspects of EIA in practice.</p> <p>Course Objectives: The main objective of the course is to provide theoretical and practical education in this field.</p> <p>Course Attainment: At the end of course, students will acquire the knowledge and professional skills necessary to enable them to undertake, identify and evaluate the potential environmental, social, and economic impacts that may result from a proposed project.</p>
10D	List of Skill development Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM20001G E	Earthquake Safety and Response	<p>Course objective: The objectives of this course are to introduce the concepts about the seismic risk and various safety gears and response measures including emergency response,</p> <p>Course Outcome: The course will provide an understanding of the conceptual and dynamic aspects relief and rescue operations as well as the preparedness measures& mock drills to mitigate the seismic impacts and enhance resilience.</p> <p>Course Attainment: The students will be equipped with the basic knowledge and skills of earthquake safety measures that can be practiced at home and in the communities to reduce the earthquake induced losses.</p>
	DM20304C R	Field and LaboratoryTr aining for Disaster Management	During this course, students will be taken to field and exposed to socio-economic cum geophysical environment, so that they are able to evaluate the different dimensions of hazard, vulnerability, exposure, and risk. The students will also get familiar with the important aspects which shall be kept in mind while preparing any disaster management plan. Students will also carry out rapid visual screening of selected buildings pertaining to different hazards. In the lab various exercises / audio visual/ mock drill / simulation exercises will be carried out.
	DM20307D CE	Statistical Techniques for Disaster Management	Course Objectives: Statistical methods are applied in disaster management in order to make precise and unambiguous statements. These are used to describe and explain various geospatial patterns and relationships. To

			familiarize students with basic concepts of statistical techniques, tools and their applications. Course Outcomes: The Students will be able to apply statistical tools in their field research for data analysis, interpretation, modelling etc. Students shall know how to organize, manage, and present data. Course Attainment: Keeping in view the nature of data and purpose of study, students would be able to make a rational choice amongst listed various statistical methods. Students demonstrate ability to write reports of the results of statistical analyses giving summaries and conclusions using nontechnical language.
	DM20404C R	Dissertation	This is one of the important courses which provide a real time situation to the students to apply their theoretical and practical knowledge in identifying a research problem relevant to disaster management theme, setting objectives and then employing various data generation/analysis techniques to complete a dissertation on a given topic. This course helps the students to work independently under the supervision of a teacher and complete a given task within a stipulated timeframe.
11A	Does the programme have courses addressing Professional ethics/ gender/ human values/ environment/ sustainability & other value framework enshrined in NEP2020/etc. (Y/N)		
11B	List of courses addressing Professional Ethics:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
11C	List of courses addressing Gender Issues:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
11D	List of courses addressing Human Value Issues:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	DM200030 E	Emergency Response to Hazards	Course Outcome: The prompt and pro-active response to disasters can save millions of lives and reduce the overall adverse impact of disasters. Course Objectives: This course highlights the role and responsibilities of incident response system for effective disaster response and the emergency response to different extreme events such as fire, floods etc. <i>Course attainment:</i> The said course enables students to Understand the measures for incident response system save millions of lives and reduce impact of hazard.
	DM20004G E	Search and Rescue Operations	Course Outcome: Disasters in densely populated areas/cities around the world have increased the need for sophisticated search and rescue capabilities to assist trapped victims. The said course is thus aimed at enabling students to learn about

				<p>various search and rescue strategies, search plans and search priorities. Course Objectives: The main objective of the course is to help the students to know how to go for search and rescue during earthquakes, floods, snow avalanches, landslides and building fires/collapse. Course Attainment: Students will have a clear understanding of the role of different Organizations/Agencies in SAR and Search and Rescue at Community Level.</p>					
	DM20402C R	Psychosocial Care in Disaster Management		<p>Course Objectives: The course highlights psychological and social problems faced by the victims of disaster, relief providers. It also focuses on psychosocial care management at international, national and regional level and how to manage human behaviour through psychosocial care, provide Techniques of Psychological Care, learn Psychological First Aid. Course Outcome: The course is designed to understand the human behaviour during and after the disasters. Course Attainment: This course will help in attaining the expertise to prepare psychological support, psychological needs of victim, stress management and overall community participation in psychosocial care management at international, national and regional level.</p>					
11E	List of courses addressing Environment Issues:								
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>						
11F	List of courses addressing Sustainability issues:								
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>						
11G	List of courses addressing Other Value Framework enshrined in NEP2020/etc.:								
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>						
12A	Does the Department/Directorate/Institute/ Centre offer Diploma Programme? (Y/N)								N
12B	Details of the Diploma Programmes offered by the institutions where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
	<i>Programme Code</i>	<i>Name of Diploma Programme</i>	<i>Mode of Programme (Online/Offline)</i>	<i>Year of Offering /enrolment</i>	<i>Contact hours of course</i>	<i>Number of students enrolled in the year</i>	<i>Number of Students completing the course in the year</i>	<i>Departmental website link to the relevant document</i>	<i>Number of students enrolled in the year</i>

				SWAYAM, etc.)							
16A	Does the programme have Field Projects/ Research Projects /Internship in the programme? (Y/N)										
16B	Details of components of Field Projects / Research Projects / Internships implemented during last five years (2019-2023)										
	<i>Course Code</i>	<i>Name of the course pertaining to field projects/ Research Projects / Internship</i>	<i>Number of Credits</i>	<i>Number of students undertaking course</i>	<i>Departmental website link to the relevant document</i>						
	DM20304CR	Dissertation	4	15 STUDNETS/YEAR FROM 2019-2022 AND 40 STUDENTS/YEAR FROM 2023 ONWARDS	https://geogrd.uok.edu.in/Files/080dbf8a-06f0-4747-9a74-d08ca769ee97/Custom/Latest%20Final%20Syllabus%20DM%202021.pdf						
17	Any other Relevant Information:										

Signature of the Head/Director of
the Department/Centre/Institute

General Instructions:

1. *Kindly format the syllabus in light of the instruction and discussions held in past meetings and upload the syllabus on the Departmental Website.*

2. *Upload valid proofs on the Departmental Website.*