Self-Study Report (SSR) - Criterion-1								
Information to be submitted by Departments/Directorates/Centres for Each Programme Offered								
Department/Directorate/Centre/Institute:	Department of Geography & Disaster Management							
Name of the Programme Offered:	M.A./ M.Sc. Geography, Ph.D. in Geography, M.A./ M.Sc. Disaster Management, Ph.D. in Disaster Management							
Departmental website link of the complete/updated syllabus:	https://geogrd.uok.edu.in/Main/ViewPage.aspx?Page=6cdc1064-49be-4fdf-811e-d9feed75ccf4&active=lnk0							
Number of Courses in the Programme?								43MAGG & 41MSDM
Number of New Courses introduced in the Programme since 2019?								11
List of New Courses introduced since 2019:								
Course Code	*Course Title*	*Brief Description*						
GG21108DCE	Rural Development	The Programme has been framed to provide an understanding and experience of different aspects of Rural Development. It is to provide a holistic perspective of schemes/programmes of central govt. in general and state govt. in particular as bulk of the population of the country is still concentrated in rural areas. It aims to develop expertise in planning and management of rural development programmes with a focus on participatory development. This will open a plenty of career opportunities for the candidates interested in this field.						
GG21305DCE	Geography of Resources	The course aims to enhance student's knowledge pertaining to inventory, evaluation and appraisal of the natural resources. It highlights various aspects of natural resource management. The course also encourages the learners to comprehend the policies governing resource use and identify various socio-economic dimensions (stakeholders, interests, trade-offs, synergies, ethical principles) while formulating management plans for ensuring sustainable use of resources which is essential for the maintaining ecological balance.						
GG21309DCE	Natural Hazards	This course focuses on the major natural hazards their mode of occurrence, intensity levels, frequency and desired response mechanisms. The students are expected to gain comprehensive knowledge about the early warning systems, various preparedness and mitigation strategies						
DM20107DCE	Disaster Prevention and Early Warning Systems	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. 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.						
DM20108DCE	Global Disaster Scenario	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. The differences in geographic locations, topography, climate and developmental status lead to highly variable and complex disasters scenario across						

		the globe. 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.
DM20206DCE	Community Based Disaster Management	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. The principles, approaches and the comprehensive framework of CBDM is taught in the course
DM20208DCE	Introduction to Seismic Risk Reduction	Earthquake being the one hazard that comes with no warning thus requires different kind of prevention mitigation and preparedness measures. 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. 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.
Dm20304DCE	FIELD and LABORATORY TRAINING FOR DISASTER MANAGEMENT	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).
Dm20305DCE	Disaster Economics	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. 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; Funding and triangular Food Aid to mitigate the disaster impacts for ensuring quick recovery in the wake of a disaster.
DM20306DCE	Flood Risk Management	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. 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.
DM20402CR	Psychosocial Care in Disaster	The course is designed to understand the human behaviour during and after the disasters. This course highlights the psychological problems faced by the relief providers as well as the victims and

	Management	how to manage human behavior through psychosocial care. It also focuses on psychosocial care management at international, national and regional level.
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
Dates of syllabus revisions during the last five years. (2019-2023)	17/12/2020 (Disaster Management)	27-09-2021 (Geoghraphy)
Departmental website link in support of syllabus revisions.		https://geogrd.uok.edu.in/Main/Default.aspx

Are Programme Outcomes (POs) clearly mentioned in the syllabus? **(Y/N)**	Y
Are the Course Outcomes (COs) mentioned for each course of the programme? **(Y/N)**	Y
Does POs & COs have relevance to local, regional & global developmental needs? (Y/N)	Y

List of courses addressing **Local Needs**:

Course Code	*Course Title*	*Brief Justification*
GG21108DCE	Rural Development	The Programme has been framed to provide an understanding and experience of different aspects of Rural Development. It is to provide a holistic perspective of schemes/programmes of central govt. in general and state govt. in particular as bulk of the population of the country is still concentrated in rural areas. It aims to develop expertise in planning and management of rural development programmes with a focus on participatory development. This will open a plenty of career opportunities for the candidates interested in this field.
GG21206DCE	Agricultural Geography	The main aim of the course is to familiarize the students with the concept, origin, and development of agriculture; to examine the role of agricultural determinants towards changing cropping patterns, productivity and diversification. The course further aims to familiarize students with the application of various models and classification schemes of agricultural productivity. At the end of course, the students will be able to get updated knowledge of agriculture related contemporary issues and strategies.
GG21207DCE	Land Use Planning	The course covers the important principles, methods and techniques of land use planning. The course also focuses on factors and drivers governing the land use change. At the end of course learners will be having a functional and integrated understanding of the dynamics of urban and rural land use and demonstrate how to effectively utilize policies and planning instruments to manage urban growth and achieve sustainable, equitable and efficient development outcomes.
GG21208DCE	Watershed Management	The main aim of the course is to introduce students to concept of Watershed Management. The course emphasizes on identifying watershed as an ideal planning unit wherein a student realizes the importance of equitable and judicious management of resources in a region. The course is intended for students interested in the sustainable management of watershed

		applying earth observation and GIS.
GG21002GE	Geography of Jammu & Kashmir	This course introduces the students to the distinct geographical characteristics of the Jammu & Kashmir. It provides the necessary inputs to the students belonging to various disciplines of earth and environment sciences to explore their interests within the broad geographical domain of the UT. This course has been conceptualized to address the requirements of a large segment of students interested in various competitive examinations.
DM20206DCE	Community Based Disaster Management	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. The principles, approaches and the comprehensive framework of CBDM is taught in the course
DM20208DCE	Introduction to Seismic Risk Reduction	Earthquake being the one hazard that comes with no warning thus requires different kind of prevention mitigation andpreparedness measures.The course is expected to familiarise 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. 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.
DM20002GE t	Flood Hazard Managemen	Floods are major and frequent disasters affecting various parts of India. About 12 percent of the country is exposed to periodic floods. In thiscourse learners would be updatedabout causes, types, effects, mitigation and response strategies for the flood hazar
DM20308DCE	Disaster Sensitive Land Use Planning	Human practices have increased the risk and vulnerability towards disasters by many folds. Improper land use planning being theprimary indicator of the human influence on the vulnerability. 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.It explains the concept, relevance, principles, factors, drivers, and methodology of risk sensitive land use planning.
DM20004 OE	Community Based Disaster Management	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. The principles, approaches and the comprehensive framework of CBDM is taught in the course

List of courses addressing **Regional Needs**:

Course Code	*Course Title*	*Brief Justification*
GG21107DCE	Geography of	The main objective of this course is aimed at making the students to gain In-depth

	India	knowledge of physiography, climate, demography natural vegetation, agriculture energy resources and industries of India. It also broadens understanding of students with respect social, cultural and ethno-linguistic profile of India. This course has been conceptualized to address the requirements of a large segment of students interested in various competitive examinations.
GG21209DCE Fluvial	Geomorphology	The course has been designed to provide learners an understanding of fundamental principles, theories and process in geomorphology and the evolution of landforms in various environmental settings. After the completion of this course, students are expected to possess the skills to quantitatively use and evaluate geomorphological data with numerical, statistical and spatial technological methods. They are also expected to possess the ability to analyze relationships between physical and human aspects of environments and landscape.
DM20106DCE	National and Regional Hazard Profile	The course is intended to familiarise 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. 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. 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.
DM20107DCE	Disaster Prevention and Early Warning Systems	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. 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.
DM20201CR	Vulnerability Assessment	This course aims to promote understanding pertaining to various physical, social, economic, and environmental aspects of vulnerability. The learners are expected to be updated about the various criterions of vulnerability assessment, vulnerability analysis of India especially the Himalayan cities, shanty settlements and strategic planning for vulnerability reduction.
DM20202CR	Disaster Response	The course on ―Disaster Response‖ deals with essential components of response, stake-holder's coordination in disaster response, Students should learn how the response to natural as well as man-made disasters has progressively improved in terms of effectiveness coordination between the stakeholders
DM20203CR	Disaster Rehabilitation, Reconstruction &Recovery	This course is aimed to enhance the understanding of the students with respect to rehabilitation, reconstruction and recovery phase of disastermanagement. The 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. The course is designed to understand

		—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, waste and debris management and employment generation with the intervention of foreign authorities, local government authorities national and international NGO's and CBO's
DM20207DCE	Waste and Debris Management	This course is aimed to provide the students awareness about the clean–up, removal, mitigate and disposal of debris and wastefollowing a major disaster. Further the said course also provides an insights regarding framing and identifying debris management plan at site. At the end of course, students should be able to know how to handle the hazardous and non-hazardous debris and waste.
DM20002OE	Introduction to Human Induced Hazards	The course would particularly emphasize on disasters induced by humans. Discussion on potential hazards andeffects would be focus here. In addition, the course would cover the deliberations on various case studies.
DM20301CR	Disaster Mitigation and Preparedness	The present course is designed to provide the learners an in-depth understanding of how to minimise the impact of hazards and disasters through various structural and non-structural measures by explaining the significance of planning and preparedness involving different stake holders in a hierarchical and coordinated manner. The learners would come to understand the importance of disaster mitigation and preparedness part of the disaster management cycle
DM20302CR	Disaster Risk Assessment	Risk assessment being an area of immediate importance for disaster risk reduction. During this course students willbe familiarised with the important components, approaches and other process involved in risk assessment. It also discusses theessentials of risk reduction and the targets for risk reduction with respect to specific natural hazards.
DM20306DCE	Flood Risk Management	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. 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.
DM20309DCE	Drug Menace and Human Trafficking	The menace of substance abuse in the young generation has assumed alarming dimensions worldwide. During this coursethe students will get to know about the international, national and local drug and narcotic scenarios and human trafficking in the world
DM20003GE	Hazard Profile of India	India's uniquegeo-climaticposition 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. The course will also illustrate the causes and consequences of historical disasters in India
DM20406DCE	Conflicts and Geopolitical Issues	This course is aimed at providing in-depth knowledge about the conflicts and geo-political issues that are related to disastermanagement. Besides the refugee crisis, the role and mandate of various global and regional organizations in Geo-political conflicts will also be dealt in the course

List of courses addressing **Global Needs**:		
Course Code	*Course Title*	*Brief Justification*
GG21101CR	Geomorphology	The course has been designed to provide learners an understanding of fundamental principles, theories and process in geomorphology and the evolution of landforms in various environmental settings. After the completion of this course, students are expected to possess the skills to quantitatively use and evaluate geomorphological data with numerical, statistical and spatial technological methods. They are also expected to possess the ability to analyze relationships between physical and human aspects of environments and landscape.
GG21103CR	Oceanography	The objective of the course is to give an overview of the science of oceanography and to identify reasons why sustainable practices regarding ocean resources are important. The students will analyze atmospheric and oceanic circulation systems as well as their interconnections and driving forces and the principles involved in the generation of waves and tides and evaluate their effects on coastal processes and marine ecosystems. At the end of the course, the students will assess the consequences of rise in sea-level on the coastal zone and society and possible mitigation and adaptation strategies and can pursue career/ research opportunities in this applied field.
GG21106DCE	Geography of Health & Healthcare	This course is envisaged to make the students understand the spatial dimensions of various health and healthcare related issues. It also critically evaluates the spatial distribution of various health care facilities especially in the environmentally disadvantageous regions. The student is prepared to contribute to health care planning in terms of spatial location of healthcare units and facilities.
GG21201CR	Climatology	The course focuses on various aspects of climate, climatic control and its genesis. The course is aimed to broaden the understanding of students regarding global, regional and local climatic scenarios. It enables the students to learn various adaptation and mitigation strategies through which negative fallout of climate change can be reduced for ensuring sustainable environment.
GG21202CR	Hydrology	The course is designed to let the learners understand the global water budget, hydrological cycle, hydrograph and flood design analysis. The groundwater, recharge, movement and aquifer properties are importantly taught from geological and engineering perspective for application in public services through government and private organisations.
GG21203CR	Remote Sensing & GIS	Students will 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. 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.
GG21002OE	World Geography	This course aims to promote a broad understanding of landforms, climate and drainage patterns at global level. It also deals with global distribution of industry, minerals, and agricultural and population resource regions. This course has been conceptualized to address the requirements of a large segment of students interested in various competitive examinations.
GG21301CR	Evolution of Geographic Thought	The course provides a broad overview of the development of geographical thought. It appreciates the diverse subject matter of Geography which has incorporated and developed theories and ideas from interdisciplinary contexts and also focuses on the evaluation of core elements which make up geographical thought and how these have emerged as a result of debate, controversy and innovations in geographical research. The course aims to enable the learners to evaluate and articulate the strengths and

		weaknesses in the philosophical basis of Geographical research and also equip them with the abilities to formulate and articulate their own perspectives on issues related to thought and practice in geography.
GG21308DCE	Geography of Transport	The main objectives of this course is aimed at making the students understand and to examine the major problems, issues and trends facing the transport sector in both the developed and developing worlds. The course content is built largely around two main themes, the nature of transport and current problems, issues and trends in transport at a variety of geographical scales and across several modes.
GG21003GE	World Geography	This course aims to promote a broad understanding of landforms, climate and drainage patterns at global level. It also deals with global distribution of industry, minerals, and agricultural and population resource regions. This course has been conceptualized to address the requirements of a large segment of students interested in various competitive examinations.
GG21401CR	Population & Settlement Geography	The course is meant to provide an understanding of spatial and structural dimensions of population and the emerging issues. The course is further aimed at familiarizing the students with global and regional level problems and also equips them for comprehending the Indian situation. The course also aims to impart knowledge of concepts and theoretical framework relating to settlement geography, which makes possible the students in building capacity to use theoretical and empirical advancements to develop strategies, policies and programmes to meet challenges of housing problems.
GG21403CR	Biogeography	The focus of this paper is to study the intricate relationship between geography and biology. It also broadens the understanding about Biodiversity, its conservation and management. This course also provides a deep understanding about various factors which influence the distribution and dispersal of species. It also enables the students to understand by geographic template and patterns along with biodiversity gradients across the globe.
GG21406DCE	Political Geography	This course provides students with a comprehensive understanding of the concepts, theories, methods, principles and models of geographic thought appropriate for analyzing politics and political relations. This course enables students to use geography in order to gain an understanding of global political actions, related military, ethnic, or religious conflicts, cultural practices, economic relationships, and resource use decisions with interregional or international implications.
GG21407DCE	World Geography	This course aims to promote a broad understanding of global distribution of landforms, climate and drainage. It also deals with global distribution of mineral resources and industries. This course has been conceptualized to address the requirements of a large segment of students interested in various competitive examinations.
GG21408DCE	Glaciology	This course is a specialized course of Physical Geography wherein students will be introduced to glacial Science. The course has been conceptualized to encourage students to understand the glaciers as repositories of water resources, their importance in shaping various types of landforms, their dynamic nature and behaviour of these glaciers to changing climatic regimes.
DM20101CR	Understanding Hazards and Disasters	This course has been designed to discuss the concept, nature, origin and types of disasters in the backdrop of prevailing natural and anthropogenic disaster scenario across the world. 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. 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

DM20102CR	Fundamentals of Disaster Management	: The course has been designed to promote the understanding of the basic concepts, principles, and significance of disaster management and its evolution with time. 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. 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.
DM20103CR	Remote Sensing, GIS and GPS-I	The course aims to develop and enhance student's theoretical understanding of Remote Sensing, Geographic Information System (GIS) and Global Positioning System (GPS). The students would gain understanding of electromagnetic spectrum, Image Interpretation, and image processing. In addition to that this course would include study of the GIS components, data models, GPS segments and applications. 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.
DM20105DCE	Understanding Geophysical Environment	This course aims at providing an in-depth understanding of geo-physical Environment. It aims to focus on internal structure of earth, tectonics, landform evolution, Ocean bottom relief, and coastal geomorphology.It also deals with various aspects of earth's heat budget, climate and its controls and processes governing Cryosphere. 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.
DM20108DCE	Global Disaster Scenario	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. The differences in geographic locations, topography, climate and developmental status lead to highly variable and complex disasters scenario across the globe. 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.
DM20001OE	Introduction to Natural Hazards	This course covers all the major hazards and is aimed at making students familiar withfundamentals of natural hazards. The students are expected to gain comprehensive knowledge about the types, causes, mechanism of occurrence, and spatial variability of hazards.
DM20205DCE	Legal Frameworks in Disaster Management	The course is designed to impart the learners a comprehensive understanding of the disaster management initiatives and the legal provisions at international, national and regional level. The legal and constitutional arrangements by most of the countries in the wake of global protocols United Nations, regional partners and other member states in the field of disaster management have proven fruitful in reducing the disaster risk through mitigation.

DM20303CR	DRR and Developmental Planning	This course covers various aspects of disaster risk reduction and development planning. The learners are expected to understand linkages between disasters and developmental planning; institutional arrangements for planning at International, National and Regional level andget understanding of how developmental planning can minimize the losses associated with disasters.
DM20305DCE	Disaster Economics	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. 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; Funding and triangular Food Aid to mitigate the disaster impacts for ensuring quick recovery in the wake of a disaster.
DM20401CR	Crisis Management and Incident Response System	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. The students will also be familiarized with the role of international and national emergency management teams to handle crisis, the structure and functioning of incident response system for effective disaster response in India and finally students will be trained to prepare crisis management plan.
DM20403CR	Climate Change	Climate change being the most challenging Phenomenon of the present times. The course has been introduced to enable studentsto get insight about the genesis of climate change, its causes and implications and its interrelationship with various disasters. This course also focuses on the policy frameworks, mitigation & adaptation strategies and livelihood protectionto combat the effects of climate change.
DM20407DCE	Disaster Management for Critical Infrastructure	This course will enable students to know about critical infrastructure, disaster vulnerability of basic critical infrastructure and safetymeasures for critical infrastructure like hospitals, schools, transport etc.
DM20408DCE	Disasters and Public Health	Disasters not only cause loss to lives and property but also give rise to diseases and injuries. In this course the students will get thorough knowledge about 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.

Does the Programme offer focus on Employability/ Entrepreneurship/ Skill development courses? (Y/N)	

List of **Employability Courses**:

Course Code	*Course Title*	*Brief Justification*

GG21102CR	Economic Geography	The course aims at providing students with tools, models and methods which are useful in understanding economic phenomenon with reference to the changing geographical attributes. At the end of the course, the students will be able to identify and measure factors responsible for establishment and localization of industry at national and global level. The course will enable students to understand various aspects manufacturing, clustering and agglomeration dynamics, to evaluate the role of different attractive and repulsive forces within relevant models to explain the international flows of goods, capital and work force.
GG21205DCE	Urban Geography	The course comprises of two credits which allows students exposure to the emerging urban scenario at national and international level. Indian cities are growing at a rapid pace in terms of their demographic and spatial size and functional activities. Urban growth has been lopsided one skewed in favour of large metropolitan cities associated with serious environmental problems. They need constant attention for their future expansion and management to improve liveability. This course helps students to develop professional capacities and skills to address these complex problems like delimitation of city limits and influence areas, land use planning with a focus on locational planning of urban utilities, preparation of town plans and spatial analysis of environmental problems to improve quality of urban life.
GG21302CR	Regional Planning & Development	The course comprises of four credits. The course explores the current context and content of regional/spatial planning from perspective of developing countries and also investigates underlying theoretical debates. Course is designed to analyse the existing spatial distribution and exploitation pattern of regional resource structures, levels of sectoral development, regional imbalances and sustainable regional developmental strategies to address the issues of regional imbalances and disparities. The focus of the course is to impart knowledge, understanding and skills necessary to practise professionally as a regional/spatial planner. Course enables the students to formulate/prepare short term regional developmental plans at micro-spatial scale.
DM20104CR	Remote Sensing, GIS and GPS-II (Practical)	This is a practical course aimed at imparting Geo-spatial techniques to the students. The students will be given basic understanding of the types and characteristics of spatial data. Learners would be exposed to various softwares (e.g., ERDASs Imagine; ArcGIS) to handle, edit, integrate, and analyze geographic data for decision making. The students are also expected to be able to extract information from satellite data, map designing, and use 3D data for various applications. Moreover, practical training would be given to students for collection, transfer, and processing of GPS data in different application which will greatly enhance their capability in monitoring and managing disasters.
DM20204CR	Geospatial Tools for Disaster Management	Geo-informatics plays a significant role in disaster management. The said course highlights all the domains with respect to the application of Geospatial tools and techniques in disaster management. In this course 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. Damage assessment associated with a particular disaster and mapping critical infrastructure at risk, pre and post disaster scenarios would also be covered.
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GG21105DCE	Geography of Tourism	This course aims at providing an in-depth understanding of geo-physical Environment. It aims to focus on internal structure of earth, tectonics, landform evolution, Ocean bottom relief, and coastal geomorphology.It also deals with various aspects of earth's heat budget, climate and its controls and processes governing Cryosphere. 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.
GG21307DCE	Environmental Impact Assessment	This course is designed to introduce students to environmental impact assessment and to provide theoretical and practical education in this field. 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. At the end of course, students will acquire the knowledge and professional skills necessary to enable them to undertake environmental impact assessment.
DM20405DCE	Environment Impact Assessment and Environmental Management Programme	The EIA is very important and has to be undertaken early in the development of proposed projects, plans and programmes. Thus during the course students will be given information about the concept, approaches and legal provisions and notifications of EIA. The students will be also familiarised with the various methodologies applied while doing EIA process and some specific EIA case studies.

List of **Skill development Courses**:

Course Code	*Course Title*	*Brief Justification*
GG21104CR	Cartographic & Quantitative Techniques in Geography	The course is aimed to introduce the foundational skills of how to generate and display the quantitative and qualitative spatial and non-spatial data to solve Earth and Space science problems, and how to gain an appreciation for the processes that operate at these spatio-temporal scales. The students will develop hands on computer algorithms and digital image processing techniques. The course will help the students to identify the specific data and methodologies for effective mapping and evaluation of natural resources. Moreover, the application of geospatial technologies for hazard mitigation and management is the core concern of the curriculum
GG21001OE	Study of Maps & Charts	The main purpose of geography is to show different physical or cultural phenomena on maps for enlightening various aspects of spatial organisation and areal differentiation. The main outcome of the course lies in the fact that it gives clear idea regarding different types of maps and different map making processes, and their utility in various fields of human interest.
GG21204CR	Remote Sensing & GIS (Practical)	This course provides the necessary skills, aptitude and training to the students in various geospatial technologies. It prepares the students adequately in different techniques of image interpretation and analysis. The practical course provides hands on exposure to our students in various remote sensing and GIS softwares. The student is professionally well equipped to work independently or in team for providing solutions to problems in a GIS environment
GG21304CR	Field Studies (Geomorphic & Socio-Economic)	The main objective of the fieldwork is to conduct an extensive survey of a contiguous wider region and identify salient landforms; their genesis and their impact on human life, flora and fauna. It also provide the students with the understanding of ground reality of a chosen village/town by observation; mapping of land quality, land use and cropping pattern and conducting Socio-economic survey of the households with the help of a specially prepared questionnaire.
GG21404CR	Advanced Surveying &	This is one of the important courses which provide a real time situation to the students to apply their

	GPS Applications (Practical)	theoretical and practical knowledge in indentifying 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.
GG21405DCE	Dissertation (Project Work)	TThis is one of the important courses which help out to introduce students with some basic statistical techniques, relevant to geographical research to acquaint students about their potentials & utilization: The knowledge of drawing inferences using the geographical database. To provide students with an understanding and appreciation of the mutual dependence of different techniques and their relevance.
DM20001GE	Earthquake Safety and Response	The seismic disasters are the nature's deadliest and devastating disasters creating havoc in a matter of seconds to minutes. The course would make the learners aware about various safety gears and response measures including emergency response, relief and rescue operations as well as the role of CBO's and NGOs for preventive measures like education, awareness, preparedness & mock drills to mitigate the seismic impacts and enhance resilience.
DM20304CR	Field and LaboratoryTraining for Disaster Management	During this course, students will be taken to field and exposed to socio-economic cum geophysicalenvironment, 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.
DM20307DCE	Statistical Techniques For Disaster Management	Considering the broad scope for research in disaster management, this course covers different processes and methods involved in quantifying processes, and impacts in the field of disaster management. This course will enhance the statistical skills of the students while and will be useful for analysis of events, understanding behaviour and trends.
DM20404CR	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 indentifying 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.

Does the programme have courses addressing Professional ethics/ gender/ human values/ environment/ sustainability & other value framework enshrined in NEP2020/etc. (Y/N)	

List of courses addressing **Professional Ethics**:

Course Code	*Course Title*	*Brief Justification*
GG21307DCE	Environment Impact Assessment	This course is designed to introduce students to environmental impact assessment and to provide theoretical and practical education in this field. 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. At the end of course, students will acquire the knowledge and professional skills necessary to enable them to undertake environmental impact assessment.
List of courses addressing **Gender Issues**:		
Course Code	*Course Title*	*Brief Justification*
GG21402CR	Social & Cultural Geography	This course provides a broad overview of the key concepts and approaches in social and cultural geography and examines the contested politics of place-making as a social and cultural practice. This course also enables the students to explore the relations between social identity and the production of geographical space and critically analyze and contribute to contemporary scholarship in social and cultural geography. This course is aimed at making students understand and develop the ability to critically assess the material and symbolic aspects of cultural landscapes.
List of courses addressing **Human Value Issues**:		
Course Code	*Course Title*	*Brief Justification*
DM20003OE	*Emergency Response to Hazards*	*The prompt and pro-active response to disasters can save millions of lives and reduce the overall adverse impact of disasters. 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.*

DM20004GE	Search and Rescue Operations	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 various search and rescue strategies, search plans and search priorities which will help the students to know how to search and rescue during earthquakes, floods, snow avalanches, landslides and building fires/collapse.
DM20402CR	Psychosocial Care in Disaster Management	The course is designed to understand the human behaviour during and after the disasters. This course highlights the psychological problems faced by the relief providers as well as the victims and how to manage human behavior through psychosocial care. It also focuses on psychosocial care management at international, national and regional level.
List of courses addressing E**nvironment Issues**:		
Course Code	*Course Title*	*Brief Justification*
GG21303CR	Ecology & Environment	The course provides a holistic approach to create and disseminate knowledge to the students about environmental problems at local, regional and global scale and also provides practical training on modern instrumentation and analytical techniques for environmental analyses and more importantly sensitizes the students towards environmental concerns, issues, and impacts of climate change and related mitigation strategies. The course enables the learners to apply their knowledge for efficient decision-making, environmental management and sustainable development.
GG21305DCE	Geography of Resources	The course aims to enhance student's knowledge pertaining to inventory, evaluation and appraisal of the natural resources. It highlights various aspects of natural resource management. The course also encourages the learners to comprehend the policies governing resource use and identify various socio-economic dimensions (stakeholders, interests, trade-offs, synergies, ethical principles) while formulating management plans for

		ensuring sustainable use of resources which is essential for the maintaining ecological balance.
GG21306DCE	Soil Geography	The course provides a broad overview of the soil forming factors and related processes, properties of soils, soil organic matter, soil nutrients, techniques of soil survey and soil classifications. It also addresses various aspects of soil erosion, land degradation and methods of soil conservation. The Course trains the students in soil surveys and soil resource mapping which are essential component of sustainable soil management practices.
GG21309DCE	Natural Hazards	This course focuses on the major natural hazards their mode of occurrence, intensity levels, frequency and desired response mechanisms. The students are expected to gain comprehensive knowledge about the early warning systems, various preparedness and mitigation strategies

List of courses addressing **Sustainability issues**:

Course Code	*Course Title*	*Brief Justification*
GG21109DCE	Sustainable Development	The course introduces the students to the concept of Sustainable Development. Students will have an understanding of the carrying capacity of ecosystems as related to providing for human needs. At the end of course, students will be able to apply concepts of sustainable development to address sustainability challenges in a global context. Students will identify, act on, and evaluate their professional and personal actions with the knowledge and appreciation of interconnections among economic, environmental and social spheres.

List of courses addressing **Other Value Framework** enshrined **in NEP2020/etc.**:

Course Code	*Course Title*	*Brief Justification*

Does the Department/Directorate/Institute/ Centre offer Diploma Programme? (Y/N)	N

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)

Programme Code	*Name of Diploma Programme*	*Mode of Programme (Online/ Offline)*	*Year of Offering/enrolment*	*Contact hours of course*	*Number of students enrolled in the year*	*Number of Students completing the course in the year*	*Departmental website link to the relevant document*	*Number of students enrolled in the year*

Does the Department/Directorate/Institute/ Centre offer Certificate Courses? (Y/N)	N

Details of the **Certificate Courses** offered by the institutions where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
Course Code	*Name of Certificate Course*	*Mode of Course (Online/ Offline)*	*Year of Offering/enrolment*	*Contact hours of course*	*Number of students enrolled in the year*	*Number of Students completing the course in the year*	*Departmental website link to the relevant document*	*Number of students enrolled in the year*
Does the Department/Directorate/Institute/ Centre offer Value-Added Courses? (Y/N)								
Details of the **Value Added Courses** offered by the institutions where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
Course Code	*Name of Value-Added Course*	*Mode of Course (Online/ Offline)*	*Year of Offering/enrolment*	*Contact hours of course*	*Number of students enrolled in the year*	*Number of Students completing the course in the year*	*Departmental website link to the relevant document*	*Number of students enrolled in the year*
Does the Department/Directorate/Institute/ Centre offer Online Courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms? (Y/N)								N
Details of **Online Courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms** where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
Course Code	*Name of the Course*	*Mode of the Course-offered by the HEI or Online (Specify the platform like MOOCS,*	*Year of Offering/enrolment*	*Contact hours of course*	*Number of students enrolled in the year*	*Number of Students completing the course in the year*	*Departmental website link to the relevant document*	*Number of students enrolled in the year*

		SWAYAM , etc.)						
Does the programme have Field Projects/ Research Projects /Internship in the programme? (Y/N)								

Details of components of **Field Projects / Research Projects / Internships implemented** during last five years (**2019-2023)**

Course Code	*Name of the course pertaining to field projects/ Research Projects /Internship*	*Number of Credits*	*Number of students undertaking course*	*Departmental website link to the relevant document*
GG21405DCE	Dissertation (Project Work)	4	40 STUDNETS /YEAR	https://geogrd.uok.edu.in/Files/080dbf8a-06f0-4747-9a74-d08ca769ee97/Custom/Geography%20Syllabus%20PG%20Batch%202021%20onwards.pdf
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

Any other Relevant Information: