Department/ Centre/ Directorate:**Geography & Regional Development :2012-2018**

(1.1.1) ***Curricula developed /adopted have relevance to the local/ national / regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of allthe program offered by the University***

The two programmes offered by the university i.e. M.A / M.Sc. Geography and M.A / M.Sc.Disaster Management have been developed / upgraded with relevance to the local / national/ global developmental needs. The M.A / M.Sc.Geography curricula has been revised/ updated. Courses on Geo-spatial technologies, advanced surveying and Digital cartography have been included so that the students are well equipped and trained in the latest technologies/ instrumentation so that their employment opportunities in the Government/ private sector are improved.

The M.A / M.Sc.Disaster Management is a professional course which has been conceptualised to prepare professionally qualified and technically trained human resource for management of disasters in the disaster prone area like Jammu and Kashmir.

Department/ Centre/ Directorate: **Geography& Regional Development**

(1.1.2) Percentageofprogramswheresyllabusrevisionwascarriedout duringthelast seven years Data Requirement for last seven years (Academic years2012 - 2018)

S.No	Programme Code/ Year	Department	Percentage (%age) of the syllabus revised
01	B.A/B.Sc. Geography /2013	Under Graduate Level	50(single Paper Scheme)
02	MAGG/2013	Geography &Reg.Development	80(CBCS Scheme)
03	MSDM/2014	Geography &Reg.Development	100 (CBCS Scheme)
04	MAGG/2015	Geography &Reg.Development	15 (CBCS Scheme)
05	MSDM/2015	Geography &Reg.Development	15(CBCS Scheme)
06	B.A/B.Sc.Geography/2017	Under Graduate Level	20 (CBCS Scheme)& Skill Enhancement
07	MAGG/2017	Geography &Reg.Development	20 (CBCS Scheme) with addition of Discipline Centric Electives, Open Electives& Generic Electives.
08	MSDM/2017	Geography &Reg.Development	20 (CBCS Scheme) with addition of DCE, OE & GE.) Discipline Centric Electives, Open Electives & Generic Electives.

Department/ Centre/ Directorate:**Geography & Regional Development**

(1.1.3) Average percentage of courses having focus on employability/ entrepreneurship/ skill developmentData Requirement for last seven years (Academic years 2012 - 2018)

Name of the Course with code	Department	Activities with direct bearing on Employability/ Entrepreneurship/ skill development	Name of the Programme
M.A./M.SC Geography **MAGG**	Geography	Remote Sensing, GIS& GPS Training Total station Digital Cartography Training of SPSS Software (40 %)	M.A./M.Sc. Geography
M.A./M.SC Disaster Management **MSDM**	-do-	Remote Sensing, GIS & GPS Training Internship in Disaster Management at National Institute of Disaster Management (NIDM), New Delhi Preparation of Disaster Management Plan (70 %)	M.A./M.Sc. Disaster Management

Documents**:** Upload Program; Curriculum; Syllabus of the courses; Minutes of the Boards of Studies/ Academic Council with course approvals. MoUs with relevant organizations for these courses, if any.

Department/ Centre/ Directorate: **Geography& Regional Development**

(1.2.1) Percentageofnewcoursesintroducedofthetotalnumberofcourses acrossallprogramsofferedduringthelast seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the new course introduced	Department	Name of the programme
M.A./ M.Sc Disaster Management from the year- 2014	Geography & Regional Development	MSDM

Department/ Centre/ Directorate: **Geography & Regional Development**

(1.2.2) PercentageofprogramsinwhichChoiceBasedCreditSystem (CBCS)/elective course system has beenimplemented

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of all programs adopting CBCS	Department	Name of all programs adopting elective course system
01. M.A./M.Sc. Geography	Geography & Reg.Development	MAGG
02. M.A./ M.Sc. Disaster Management	Geography & Reg.Development	MSDM
03. B.A /B.Sc. Geography	All Degree Colleges of the Valley having Geography as one Subject at Under Graduate Level.	BA/B.Sc. Geography

Department/ Centre/ Directorate: **Geography & Regional Development**

(1.3.1) Institution integrates cross cutting issues relevant to Gender, EnvironmentandSustainability,HumanValuesandProfessional Ethics into theCurriculum

Data Requirement for last seven years (Academic years 2012 - 2018)

M.A/M.Sc. Geography :

A description of courses which address Gender, Environment and Sustainability, Human Values and ProfessionalEthics	Department	The list of corecourses
The course has been designed to provide learners an understanding of fundamental principles, theories and surface 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.	Geography	**GG17101CR** Geomorphology
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.	Geography	**GG17102CR** Evolution of Geographic Thought
The course focuses on the theoretical understanding of statistics and cartographic techniques and provides opportunities for advanced research by using GIS and SPSS software. The advanced cartographic techniques combines science and technical ability that is capable of communicating information effectively and quickly. The students would be adequately trained in map making, statistical analysis using advanced software's.	Geography	**GG17103CR** Advanced Quantitative and Cartographic Techniques
The course focuses on various aspects of climate and its Genesis. It analyses the impact of climate on human beings and also focuses on various causes of climatic variability and climate change. It enables the student to learn various adaptation and mitigation strategies in this regard.	Geography	**GG17201CR** Climatology
This comprehensive course has been devised to provide the students the theoretical understanding of various geospatial technologies like Remote Sensing and GIS. It deals with the fundamental aspects and at the same time discusses the various applications of these technologies in various applied fields. The students are prepared to carve a place for themselves in the ever expanding world of opportunities that these technologies have to offer at the global level.	Geography	**GG17202CR**Remote Sensing & GIS
This course provides the necessary skills, aptitude and trainings 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	Geography	**GG17203CR** Remote Sensing & GIS (Practical)

This course specifically focuses on the role of geography in influencing the socio-cultural milieu of communities living in different parts of the world. The students which the society faces. The course will make students aware about the current social problems and how to cope with them. Making a student aware about the society will impart a moral education to the students.	Geography	**GG17301CR** Social & Cultural Geography
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 and , 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 planes at micro-spatial scale.	Geography	**GG17302CR** Regional Planning & Development
Field studies termed as geographic laboratories leads to learning experiences outside of the classroom and allow students to gather their own experience about physical and social elements. Students are trained in the field about the conduct of Socio-economic Field survey. Students are also trained about Geomorphic field investigations during the field survey.	Geography	**GG17303CR** Field Studies (Geomorphic and Socio-Economic)
The course is expected to provide learners clear idea of the evolution and present scope of the discipline. Moreover, the course aims to focus on past, present and future scenario of population and sex-age structure of the world familiarizing students with basic concepts and approaches that can be applied for studying population phenomena would also be covered. The course also aims to impart knowledge of concepts and theoretical framework relating to settlement geography. Building capacity to use theoretical and empirical advancements to develop strategies, policies and programmes to meet challenges of housing problems is also the domain of this course.	Geography	**GG17401CR** Population and Settlement
Economic geography is a dynamic, diverse and contested body of knowledge that aims to provide critical insights into the workings of contemporary societies and economies. It unfolds the disparities in economic and resources of a region thus information is employed in policymaking decisions.	Geography	**GG17402CR** Economic Geography
The course has been planned to provide practical training of various advanced instruments i.e., Total Station and Global Positioning System. In addition to setting-up of the instruments, the students are expected to make some fundamental measurements (distance, angle, height, area) of land surveying and layout designing in GIS.	Geography	**GG17403CR** Advanced Surveying & GPS Applications

M.A/M.Sc. Disaster Management :

A description of courses which address Gender, Environment and Sustainability, Human Values and ProfessionalEthics	**Department**	**The list of corecourses**
This course covers all the major hazards having diverse nature. This course is aimed at making students understand fundamentals of natural and human-induced hazards. The students are expected to gain comprehensive knowledge about the types, causes, mechanism of occurrence, and spatial variability of hazards and disasters.	Geography	**DM17101CR** **Introduction To Natural And Human Induced Disasters**

The course aims to make students understand basic theoretical concepts 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.	Geography	**DM17102CR** **REMOTE SENSING, GIS AND GPS-I**
This is a practical course aimed at imparting proactive training to the students. The students will be given basic understanding about the types and characteristics of spatial data. Learners would be exposed to various softwares (e.g., Erdas Imagine 9.3; ArcMap 10.2) to handle, edit, integrate, and analyse 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, the course aims to provide practical training to students for collection, transfer, and processing of GPS data for different application.	Geography	**DM17103CR** **REMOTE SENSING, GIS AND GPS-II**
The course on "Disaster Response" takes a holistic view of disaster response. The said course deals with essential components of response: stake-holder's coordination in disaster response, managing human behaviour and response measures. By this course, students should be able to answer how the response to natural as well as man-made disasters has progressively improved in terms of effectiveness.	Geography	**DM17201CR** **Disaster Response**
This course is aimed to bring in the students, to distinguish the rehabilitation, reconstruction and recovery phase of disaster management. 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. Besides they will be familiar about one of the important aspects i.e. build back better approach.	Geography	**DM17202CR** **Rehabilitation, Reconstruction And Recovery**
Modern technologies such as Remote Sensing, GIS and GPS play a significant role in disaster management. The said course highlights all the domains with respect to the application of Geo-informatics in disaster management. In this course students will get hands-on experience on how the analysis of satellite data and GIS could help in retrieving essential information for disaster risk reduction. Damage and loss assessment associated with a particular disaster; and mapping pre and post disaster scenarios would also be covered.	Geography	**DM17203CR** **Rehabilitation, Reconstruction And Recovery**
This course aims to deliberate on various physical, social, economic, and environmental aspects of vulnerability. The learners are expected to have an understanding of the vulnerability concept and various approaches of vulnerability assessment.	Geography	**DM17301CR** **Vulnerability Assessment**
Risk assessment is an area of direct importance for disaster risk reduction. During this course students will get awareness about the important components (hazard, vulnerability, and exposure) of disaster risk assessment. Moreover, the important concepts and approaches in disaster risk assessment process will also be included. This course will help the students in knowing about the current status, gaps and challenges in disaster risk assessment.	Geography	**DM17302CR** **DISASTER RISK ASSESSMENT**
Students will be taken to field and exposed to socio-economic and geo-physical environment of any region, so that they are able to evaluate the different dimensions of vulnerability, exposure, and risk. The students will also get familiar with the important aspects which shall be kept in mind while preparing disaster management plan of any region. Pertinently, in the field studies course each student shall have to prepare a brief field report according to the nature and purpose of the field.	Geography	**DM17303CR** **FIELD TRAINING FOR DISASTER MANAGEMENT**
The course has been designed to give learners knowledge of the structure and functioning of crisis management and incident response system. The students will also be familiarized with the role of international and national emergency management teams to handle crisis and incident response system in India.	Geography	**DM17401CR** **CRISIS MANAGEMENT AND INCIDENT RESPONSE SYSTEM**

This course is aimed to provide students an in-depth knowledge about the various humanitarian, institutional and legal initiatives taken to mitigate disasters at global, national and local level.	Geography	**DM17402CR** **DISASTER MANAGEMNET INITIATIVES & LEGAL PROVISIONS**
This course involves components for preparation of dissertation by concerned students on any of the topics relevant to disaster management theme selected in consultation with the concerned supervisor (teacher).		**DM17403CR** **PROJECT WORK/DISSERTATION**

Department/ Centre/ Directorate: **Geography & Regional Development**

(1.3.2) Numberofvalue-addedcoursesimpartingtransferablelandlifeskills offered during thelast seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Names of the value added courses with 30 or more contacthours	Department	No. of times offered during the sameyear	Total no. of students completing the course in theyear
Remote Sensing	**MAGG**	**01**	**40**
GIS& GPS Training			
Surveying			
Total Station			
Digital Cartography			
Remote Sensing	**MSDM**	**01**	**17**
GIS & GPS Training			
Internship in Disaster Management			
Preparation of Disaster Management Plan			

Department/ Centre/ Directorate: **Geography & Regional Development**

(1.3.3)Numberofvalue-addedcoursesimpartingtransferable andlifeskills offeredduringthelast seven years

Percentage of students enrolled in the courses

Data Requirement for last seven years (Academic years 2012 - 2018)

Names of the value added courses with 30 or more contacthours	Department	No. of times offered during the sameyear	Total no. of students completing the course in theyear
Remote Sensing	**MAGG**	01	40 (100 %)
GIS & GPS Training			
Surveying			
Total Station			
Digital Cartography			
Remote Sensing	**MSDM**	01	17 (100 %)
GIS & GPS Training			
Internship in Disaster Management			
Preparation of Disaster Management Plan			

Department/ Centre/ Directorate: **Geography & Regional Development**

(1.3.4) Percentage of students undertaking field projects / internships

Data Requirement for last seven years (Academic years 2012 - 2018)

Names of theprogram	Department	No. of students undertaking field projects / internships in the last seven years
M.A./M.SC Geography	Geography & Reg. Development	
(Geomorphic & Socio – Economic Survey)	2012	39
	2013	40
	2014	39
	2015	41
	2016	40
	2017	41
	2018	0
M.A./M.SC Disaster Management	Geography	
(Training Programme for Disaster Management students at National Institute of Disaster Management (NIDM), New Delhi)	2015	15
-do-	2016	17
	2017	17
	2018	0

Department/ Centre/ Directorate: **Geography & Regional Development**

(2.1.1) Average percentage of students from other States and Countries during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of students enrolled from other states andcountries	Department	Total number of studentsenrolled
NIL		

Department/ Centre/ Directorate: **Geography & Regional Development**

(2.1.2) Demand Ratio (Average of last seven years)

Data Requirement for last seven years (Academic years 2012 - 2018)

MAGG (1:11 Demand Ratio) MSDM (1: 16 Demand Ratio)

Number of seats available in all theprograms	Year	Total number of eligible applicationsreceived
40 seats in M.A/M.Sc. Geography	2012	310
	2013	412
	2014	437
	2015	461
	2016	537
	2017	580
	2018	0
17 seats in M.A/M.Sc. Disaster Management	2014	250
(Started in the Year 2014)	2015	283
	2016	298
	2017	304
	2018	0

Department/ Centre/ Directorate: **Geography & Regional Development**

(2.1.3) Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of students admitted from the reservedcategory	Year/ Programme	Total number of seats earmarked for reserved category asper GOI or State Governmentrule
100 % (M.A/M.Sc. Geography)	2012/ MAGG	**10**
-do-	2013/ MAGG	**11**
-do-	2014/ MAGG	**10**
-do-	2015/ MAGG	**08**
-do-	2016/ MAGG	**09**
-do-	2017/MAGG	**09**
-do-	2018/MAGG	**0**
100% (M.A / M.Sc. Disaster Management)	2014/ MSDM	**03**
-do-	2015/ MSDM	**03**
-do-	2016/ MSDM	**04**
-do-	2017/ MSDM	**04**
-do-	2018/ MSDM	**0**

(2.2.1) Theinstitutionassessesthelearninglevelsofthestudents, afteradmission and organises special programs for advanced learners and slowlearners

Upload a description of the initiative in not more than 500 words

A number of measures have been initiated to address the problems of slow learners of different categories of students. Firstly, a process of identification is being carried out by the concerned teacher to identify the slow learners. Usually it has been observed that the courses containing practical training inputs like use of instruments, involvement of various types of techniques mainly training of softwares poses difficulty in learning process to the various students. In this direction the additional classes, tutorials, group interactions and individual monitoring processes of the slow learners is adopted to improve their learning skills.

Department/ Centre/ Directorate**: <u>Geography& Regional Development</u>**

(2.2.2) Student - Full time teacher ratio

Data Requirement for last seven years (Academic years 2012 - 2018)

Total number of students enrolled in theinstitution	Department	Total number of full time teachers in theinstitution
	Geography & Reg. Development	
MAGG	2012	**09 (1:4)**
	2013	**09 (1:4)**
	2014	**09 (1:4)**
	2015	**10 (1:4)**
	2016	**10 (1:4)**
	2017	**10 (1:4)**
	2018	**0**
MSDM	2014	**02 (1:8)**
	2015	**02 (1:8)**
	2016	**02 (1:8)**
	2017	**02 (1:8)**
	2018	**0**

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.2.3) Percentage of differently abled students (Divyangjan) on rolls

Data Requirement for last seven years (Academic years 2012 - 2018)

Total number of differently abled students on roll in theinstitution	Department	Total number of students on roll in theinstitution
MAGG (PHC)	2012	**01**
	2013	**01**
	2014	**01**
	2015	**0**
	2016	**0**
	2017	**0**
	2018	**0**
MSDM (PHC)	2014	**0**
	2015	**0**
	2016	**0**
	2017	**0**
	2018	**0**

(2.3.1) *Studentcentricmethods,suchasexperientiallearning,participative learningandproblemsolvingmethodologiesareusedforenhancing learningexperiences*

Upload description of student centric methods in not more than 500 words.

The Department has adopted various student centric methods for enhancing learning experiences like Organising Seminars, class presentations, Group discussions and arranging tutorial classes for them.

The students are given a topic for each credit in each course and a seminar is organised on the selected topic. The students are encouraged to actively participate in these seminars. The students are also given assignments at the start of the session in each course and they are instructed to complete these assignments and prepare a presentation on the given topic. The presentations are then to be delivered individually for each course.

Group discussions are organised at the departmental level and students are divided into groups. Discussions are organised on socially relevant themes.

Tutorial classes are assigned in the time table for each course and the students are encouraged to deliberate/ discuss topics of individual courses with their teachers. This provides the students the opportunity of personalised attention for clearing their doubts about the topics discussed in the classrooms.

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.3.2) AveragepercentageofteachersusingICTforeffectiveteachingwith LearningManagementSystems(LMS), E-learningresourcesetc.

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of teachers using ICT (LMS,e-resources)	Department	Number of teachers onrolls	ICT tools and resourcesavailable
10 out of 10 (100%) are using ICT	MAGG	10	Internet, Smart Board, Overhead Projector
02 out of 03 are using ICT	MSDM	02	

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.3.3) Ratio of mentor to students for academic and stress related issues

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of students assigned to eachMentor	Department
2012 = 39 (1: 39)	Geography & Reg. Dev.
2013 = 40 (1: 40)	
2014 = 20 (1: 20)	
2015 = 21 (1: 21)	
2016 = 20 (1: 20)	
2017 = 20 (1: 20)	
2018 = 0	
2014 = 15 (1: 15)	
2015 = 15 (1: 15)	
2016 = 08 (1: 08)	
2017 = 08 (1: 08)	
2018 = 0	

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.4.1) Average percentage of full time teachers against sanctioned posts during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of full timeteachers	Department	Number of sanctionedposts
09 - 2012	Geography &Reg Dev.	**10**
09 - 2013		**10**
09 - 2014		**10**
09 - 2015		**10**
09 - 2016		**10**
09 - 2017		**10**
09 - 2018		**10**

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.4.3) Average teaching experience of full time teachers in number of years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the teachers	Department	Number of years with teaching experiences (upto 2018)
Prof .T.A Kanth	**Geography& Reg. Dev.**	35
Prof. M.SultanBhat	-do-	24
Prof .IshtiaqA.Mayer	-do-	24
Dr.Shamim Ahmad Shah	-do-	21
Dr.Pervez Ahmed	-do-	16
Dr.Harmeet Singh	-do-	14
Dr.G. M.Rather	-do-	13
Dr.Mohd. ShafiBhat	-do-	10
Dr.Javeed Ahmad Rather	-do-	10
Dr.AkhtarAlam	-do-	1 ½

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.4.4)Averagepercentageoffulltimeteacherswhoreceivedawards, recognition,fellowshipsatState,M.A./M.SC Disaster Management**National,Internationallevelfrom Government, recognised bodies during the last seven years**

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of full time teachers receiving awards from State, National, Internationallevel	Department	Total number ofteachers
01 (UGC Fellowship to Germany)	Geography & Reg. Dev.	10

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.4.5) AveragepercentageoffulltimeteachersfromotherStatesagainst sanctioned posts during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of full time teachers from otherstates	Department	Total number of sanctionedposts
NIL		

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.6.1) Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed on website and communicated to teachers and students

Data Requirement for last seven years (Academic years 2012 - 2018)

M.A/M.Sc. Geography:

Program Outcome: The program has been conceptualised with the aim of preparing geographers who are adequately trained to address the problem and issues being faced in the contemporary times. The curriculum is being continuously updated so that new concepts, innovations, methodologies and approaches are incorporated to keep the subject in line with the changing trends at the global level. The students are expected to have a clear understanding of conceptual framework of the subject field of geography. The program prepares our students to place themselves as regional and urban planners, environmental managers, resource planners and cartographers etc. The program prepares our students for various competitive examinations so that they can carve a niche for themselves in the civil services.

The theoretical and practical training in various geospatial technologies adequately trains the students to make their careers as Remote Sensing and GIS professionals. Modern tools, techniques and introduction of latest instrumentation in surveying has largely enhanced the employability of our students. The program provides enough opportunities to the students to select their field of specialization for pursuing research degrees and contribute to the extension of knowledge pertaining especially to our region. The program develops the competence to facilitate development of inter-disciplinary approach for an easy shift over from curricular work to research activity which would be able to help the process of socio-economic development of Jammu & Kashmir state. The emphasis of this programme is to produce applied geographers who are able to work in a multidisciplinary environment and contribute their share in providing solutions to our day to day problems.

Upload COs for all courses (exemplars from Glossary-Notes)	Department/ Course No.	Upload a description of Mechanism of Communication
Geomorphology	**GG17101CR**	The course has been designed to provide learners an understanding of fundamental principles in geomorphology. The course includes looking at evolution and dynamics of landforms in relation to various exogenic and endogenic processes.
Evolution of Geographic Thought	**GG17102CR**	It helps to understand the evolution and philosophy of the geography, Its conceptual Developments and paradigm shift. A student comes to know various carrier opportunities in Geography.
Advanced Quantitative and Cartographic techniques	**GG17103CR**	The course focuses on the theoretical understanding of statistics and cartographic techniques and provides opportunities for advanced research by using GIS and SPSS software. The advanced cartographic techniques combines science and technical ability that is capable of communicating information effectively and quickly. The students would be adequately trained in map making, statistical analysis using advanced software's.
Tourism Geography	**GG17104DCE**	To study the relationship of geography and tourism. To prepare the learners with knowledge and skills essential to understanding and manage the needs of destination. Develop strategies for ongoing personal and professional development as a recreation and leisure services professional. To facilitate the assessment of the tourism potential of a destination and prepare tourism development plan as well as marketing techniques.
Geography of Health and Health Care	**GG17105DCE**	As a sub-discipline of geography Medical geography studies the relationship between environment and health, life style and health, inequalities in distribution of health infrastructure and its associated issues from a spatiotemporal perspective. Medical geography is 'the critical evaluation of environmental and social determinants of disease and health' including the spatial aspect and mapping of health issues.
Oceanography	**GG17106DCE**	Oceanography is the branch of Earth Science which deals with the study of oceans and seas with specific importance to coastline, estuaries, coastal waters, shelves and the ocean bed. Making career in Oceanography is challenging as well as rewarding. There are large employment opportunities for Geographers in both public and private sectors. The Union Public Service Commission conducts tests for placements in Central Government Agencies like the Geological Survey of India and the Central Ground water Board. A professional in Oceanography can also be absorbed as an Environmental Scientist,

		Geo-desist, Geographer, Geologist, Geophysicist, Hydrographer, Oceanographer or mining engineer at various organizations in India and abroad.
Fluvial Geomorphology	**GG17107DCE-**	The students develop an understanding of various fluvial processes responsible for the formation of landforms on the surface of the earth.. This course is expected to develop an interest among the students to pursue this branch of Physical Geography which has considerable applications in numerous fields
Sustainable Development	**GG17108DCE**	The course introduces the students to the concept of Sustainable Development. It comprehensively discusses the Man- Environment relationship that exists under different environmental settings. It is expected to inculcate the habit of sustainable living among the students and at the same provide theoretical understanding to them so that they could pursue their careers as environmental and regional planners.
Geography of Jammu and Kashmir	**GG17109GE**	This course takes a holistic view of Geography of the state. During the said course students will be provided a general awareness of physiography, drainage, climate, vegetation, population, agriculture, horticulture, tourism, and hydroelectric power projects of the State.
Climatology	**GG17110GE**	The course focuses on various aspects of climate and its Genesis. It analyses the impact of climate on human beings. It enables the student to learn various adaptation and mitigation strategies in this regard. It also provides practical inputs about various climatological and meteorological parameters and imparts skill in students regarding their measurement.
Study of Maps and Globe	**GG17111OE**	It helps to understand the basic concept of the world, its location, different types of maps, determination of coordinates and time zones etc. A student can start his own consultancy of maps. They can also work in defence as map reader.
Global Positioning System	**GG17112OE**	This course aims to provide learners an understanding of satellite based navigation system (GPS). It covers deliberations on the structure,functioning mechanism, and applications of the technology in varied fields.
Climatology	**GG17201CR**	The course focuses on various aspects of climate and its Genesis. It analyses the impact of climate on human beings and also focuses on various causes of climatic variability and climate change. It enables the student to learn various adaptation and mitigation strategies in this regard
Remote Sensing & GIS	**GG17202CR**	Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object and thus in contrast to on-site observation. *Remote sensing* is used in numerous fields, including geography, land surveying and most Earth Science disciplines. The use of *Remote Sensing* and Geographic Information System (*GIS*) gave *scope* for immense opportunities in the field of large-scale mapping, updating of existing geographical maps. But it has a great *scope* in India in coming *future* due to increasing necessity of geoexplorations, natural resource management, water resource management, etc.
Remote Sensing and GIS	**GG17203CR**	In this course the students would be given practical training on interpretation and analysis of aerial photographs and satellite data. The learners are expected to retrieve, edit, analyse spatial information and design maps using different remote sensing and GIS software's.
Urban Geography	**GG17204DCE**	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.

Glacial Geomorphology	**GG17205DCE**	This course is a specialised course of Physical Geography which introduces students to glacial Geomorphology. The valley of Kashmir is home to hundreds of glaciers and the landscape of the region has been largely worked and shaped upon by glaciers. The course is expected to generate interest among the students to pursue their careers in the field of glaciology.
Agricultural Geography	**GG17206DCE**	Agricultural geography focuses specifically on farming, production of food, fibre, fuel and livestock resources. The main focus is how to increase farm house holds income and livelihood concerns. The students would have an in-depth understanding of the agricultural Geography.
Hydrology	**GG17207DCE**	Hydrology is the study of water's (i) movement, (ii) transport and storage of mass and energy, and (iii) distribution through, and exchange between, the biosphere processes and methods while also providing views and opinions to aid students in applying hydrological concepts to environmental *careers*.
Watershed Management	**GG17208DCE**	The main aim of the course is to introduce students to concept of Watershed Management. The course emphasises on identifying Watershed as an ideal planning unit wherein a student realises the importance of equitable and judicious management of resources in a region.
Natural Hazards	**GG17209GE**	The course intends to make learners understand various types of natural hazards. It would cover the deliberations on types, cause, and effects of these natural processes.
Geography of Himalayas	**GG17210GE**	The course focuses on geological, physiological, climatic and socio-economic Framework of Himalayas. It provides detailed information about the fragile mountain environment and also focuses on adaptation and mitigation measures to ensure prosperity and safety of the inhabitants of the region
Geography of India.	**GG17211OE**	Course content deals with socio-economic-cultural-physical and environmental conditions of India and is related to investigate spatio-temporal changes taken place in India.
Disaster Vulnerability in India	**GG17212OE**	The Course is designed to provide comprehensive understanding of disaster vulnerability of India. The students will develop knowledge and perception about factors governing Risk and Vulnerability towards different natural hazards such Earthquake, Floods, Droughts and Cyclones. The students will also comprehend the geographical controls on occurrence of these hazards.
Social and Cultural Geography	**GG17301CR**	This course specifically focuses on social and cultural problems which the society faces. The course will make students aware about the current social problems and how to cope with them. Making a student aware about the society will impart a moral education to the students.
Regional Planning & Development	**GG17302CR**	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 and , 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 planes at micro-spatial scale.
Field Studies in Geography (Practical)	**GG17303CR**	Field studies termed as geographic laboratories leads to learning experiences outside of the classroom and allow students to gather their own experience about physical and social elements.Students are trained in the field about the conduct of Socio-economic Field survey. Students are also trained about Geomorphic field investigations during the field survey.
Ecology and Environment	**GG17304DCE**	This course focuses on Man environment interaction and helps the student to understand the concept of sustainable Development. it also imparts training in EIA and Environmental Management which enhances the employability of the student

Natural Resources Management	**GG17305DCE**	The course aims to introduce students to the concept and philosophy of Natural Resources Management. Its importance and significance in the present scenario in light of the tremendous pressure on these precious resources. The students learn about the various approaches that have been adopted for effective and judicious utilization of these resources.
Soil Geography	**GG17306DCE**	It focuses on formation, distribution and conservation of soil resources and also provides certain technical inputs which could improve soil health and boost productivity to ensure food security as most of the students are from agrarian background.
Environment Impact Assessment	**GG17307DCE**	The EIA is a must and has to be undertaken early in the development of proposed projects, plans and programmes and must be completed before a decision to proceed is made. Thus during the course students will be provided a brief about the concept, approaches and legal provisions of EIA and the various methodologies applied while doing EIA.
Geopolitics of Indian Sub-Continent	**GG17309GE**	It helps to understand the geopolitical aspects of Indian subcontinent, foreign policies, strategic location factors etc. of a region. A student can be adjusted in various departments like defence, foreign policy consultancy etc.
Glaciology	**GG17310GE**	This course has been conceptualised as a general course for all the students so that they could learn more about the glaciers, their origin and classification, Erosional and depositional processes and glacial hazards etc. After completion of this course, the students are expected to explore multidisciplinary approaches to various environmental problems.
World Geography	**GG17311OE**	Deals with the comparison and critical assessment of socio-economic scenario of developed, developing and under developed societies. It studies the climatic changes and variations on the wellbeing of humans.
Disaster Profile of India	**GG17312OE**	India's unique geo-climatic position makes India particularly vulnerable to disasters. The Spatio-temporal variability of India with respect hazards, vulnerability, exposure, and risk would be covered in this course. The paper will also illustrate the causes and consequences of historical disasters in India.
Population and Settlement Geography	**GG17401CR**	The course is expected to provide learners clear idea of the evolution and present scope of the discipline. Moreover, the course aims to focus on past, present and future scenario of population and sex-age structure of the world.Familiarising students with basic concepts and approaches that can be applied for studying population phenomena would also be covered. The course also aims to impart knowledge of concepts and theoretical framework relating to settlement geography. Building capacity to use theoretical and empirical advancements to develop strategies, policies and programmes to meet challenges of housing problems is also the domain of this course.
Economic Geography	**GG17402CR**	Economic geography is a dynamic, diverse and contested body of knowledge that aims to provide critical insights into the workings of contemporary societies and economies. It unfolds the disparities in economic and resources of a region thus information is employed in policymaking decisions.
Advanced Surveying and GIS Applications	**GG17403CR**	The course has been planned to provide practical training of various advanced instruments i.e., Total Station and Global Positioning System. In addition to setting-up of the instruments, the students are expected to make some fundamental measurements (distance, angle, height, area) of land surveying and layout designing in GIS.
Dissertation	**GG17404DCE**	This is practical field based course compulsory for all students. This course demands an in-depth knowledge of the subject with a particular specialisation. This prepares students for learning field based activities, applying them to real world problems and giving suitable solutions to these problems.

Political Geography	**GG17405DCE**	The course helps to understand the geographical aspects of national and international politics, foreign policies, strategic location factors etc. of a region/country. A student can be adjusted in various departments like defence, foreign policy consultancy etc.
Applied Geomorphology	**GG17406DCE**	The course has been developed to provide learners an understanding of various application areas of geomorphology. The students are anticipated to have a thorough understanding of geochronology, morphometry, and application of geomorphic knowledge in hydrology, mineral exploration, urbanization, and civil engineering projects.
Bio-Geography	**GG17407DCE**	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.
Study of Topographic Maps	**GG17410OE**	It helps to understand the basic concept of the topographical maps like meaning, significance, scope and uses etc. Students are trained how to study an area with the help of topographical map of the concerned area. A student can start his own consultancy of maps. They can also work in defence as map reader.
Geo-Environmental Framework of J&K	**GG17411OE**	This course will make students aware about the potential geographical and environmental resources. This will help students in gaining the knowledge about the resource base of the state and how to conserve and preserve these resources for sustainable development.

M.A/M.Sc. Disaster Management:

Program Outcome: The incidence of natural and human induced disasters have assumed alarming dimensions both over temporal and spatial scales resulting in widespread loss of lives and assets globally. Collaborative efforts involving all stakeholders are required at various levels for making Disaster Risk Reduction (DRR) mechanism effective. In this direction, the introduction of Disaster Management Programme(M. A/ M. Sc.) by University of Kashmir is an academic initiative expected to be very productive for addressing the various dimensions of Disaster Risk. 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, forming the core components of the programme. The programme aims to prepare a pool of skilled human resource personnel who will become qualified and professional disaster managers. 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 to graduates of the programme in various regional, national, and international organizations.

Upload COs for all courses (exemplars from Glossary-Notes)	**Department/ Course No.**	**Upload a description of Mechanism of Communication**
Introduction To Natural And Human Induced Disasters	**DM17101CR**	This course covers all the major hazards having diverse nature. This course is aimed at making students understand fundamentals of natural and human-induced hazards. The students are expected to gain comprehensive knowledge about the types, causes, mechanism of occurrence, and spatial variability of hazards and disasters.
Remote Sensing, GIS and GPS-I	**DM17102CR**	Here course aims to make students understand basic theoretical concepts 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.
Remote Sensing, GIS and GPS-II	**DM17103CR**	This is a practical course aimed at imparting proactive training to the students. The students will be given basic understanding about the types and characteristics of spatial data. Learners would be exposed to various softwares (e.g., Erdas Imagine 9.3; ArcMap 10.2) 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.
Fundamentals of Disaster Management	**DM17104DCE**	The course has been designed to deliver on basic concepts, principles, and significance of disaster management. The course would also cover best practices, changes, and new aspects of

		disaster management. The learners would get knowledge of frameworks adapted for disaster risk reduction over the period of time that has come up in the backdrop of various world disaster conferences. Moreover, the course covers disaster management policies as case studies from under developed, developing and developed nations.
Understanding Geophysical Environment	**DM17105DCE**	This course aims to provide understanding of geomorphology, hydrosphere, atmosphere and cryosphere. Their dynamics, role and impact on geophysical environment; and disaster profile of various regions would also be covered.
Disaster Preparedness And Mitigation	**DM17106DCE**	With emphasis on mitigation and preparedness, the course covers various aspects of Disaster Management at different levels. Significance of planning and preparedness involving different stakeholders at different levels are also part of the course. The students are anticipated to understand the importance and means of disaster preparedness and mitigation.
Regional Hazard And Disaster Management Scenario	**DM17107DCE**	The course is intended to acquaint students about the hazard, exposure, and vulnerability scenario of Jammu and Kashmir. Besides, the course would deal with the recent /historical perspective of disasters in Jammu and Kashmir. The course would cover the disaster management structure of Jammu and Kashmir and the role of different organization in disaster management as well.
Natural Hazards	**DM17108GE**	The aim of this course is to apprise students about various hydro-meteorological and geological hazards. The learners would get an understanding of causes, classification, spatial variability and effects of the natural hazards.
Human-Induced Disasters	**DM17109GE**	The course would particularly emphasize on disasters induced by humans. Discussion on potential hazards (chemical, biological, radiological and nuclear) and effects would be focus here. In addition, the course would cover the deliberations on various case studies.
Regional Natural Hazards	**DM17110OE**	In this course the learners would get accustomed with knowledge about hazards with special reference to this region (Kashmir). Genesis, types, spatio-temporal variability of natural hazards and effects on society would be primary focus here.
Earthquake Safety And Response	**DM17111OE**	Earthquake being the one hazard that comes with no warning thus requires different kind of prevention mitigation and preparedness measures. This course covers various safety and response measures desired for reducing the earthquake impact. The course would include various fundamental concepts of seismic hazard; structural and non-structural measures and safety aspects of the hazard.
Disaster Response	**DM17201CR**	The course on "Disaster Response" takes a holistic view of disaster response. The said course deals with essential components of response: stake-holder's coordination in disaster response, managing human behaviour and response measures. At the end of semester, students should be able to answer how the response to natural as well as man-made disasters has progressively improved in terms of effectiveness.
Rehabilitation, Reconstruction And Recovery	**DM17202CR**	This course is aimed to bring in the students, to distinguish the rehabilitation, reconstruction and recovery phase of disaster management. 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. Besides they will be familiar about one of the important aspects i.e build back better approach.
Geoinformatics For Disaster Management	**DM17203CR**	Modern technologies such as Remote Sensing, GIS and Geo-informatics play a significant role in disaster management. The said course highlights all the domains with respect to the application of Geo-informatics in disaster management. In this course students

		will get hands on experience on how the analysis of satellite data and GIS could help in a better way to retrieve essential information for disaster risk reduction. Damage and loss assessment associated with a particular disaster and mapping pre and post disaster scenarios would also be covered.
Institutional Structure For Disaster Management	**DM17204DCE**	In this course the learners would get an understanding of the evolution, organizational structure, powers, and functions of the different international, national and local organizations for Disaster Management.
Statistical Techniques For Disaster Management	**DM17205DCE**	This course will introduce the students to statistical studies useful for analysis, understanding behavior and trends using disaster or hazard related statistics (historical data, statics on frequency, damage, loss, spatio-temporal patterns, etc.). Statistical analysis of data collected from the field through observations or from respondents (designed questionnaires) regarding hazards, disaster, and about different aspects of the society and scenarios in any phase of disaster management are also components of this course. This course will also familiarize the students about how to collect the data and how to determine factors impacting individuals and communities.
Disaster Management In India	**DM17206DCE**	The approach towards managing disasters has undergone a radical change over the last few decades. This course highlights the overall development of institutions dealing with disaster management in India. The course acquaints students about the roles, responsibility, and institutional structure of disaster management in India.
Waste and Debris Management	**DM17207DCE**	This course is aimed to provide the students awareness about the clean–up, removal, mitigate and disposal of debris and waste following 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.
Geo-Spatial Tools For Disaster Management	**DM17208GE**	Modern technologies such as Remote Sensing, GIS and Geo-informatics play a significant role in disaster management. The said course highlights all the domains with respect to the application of Geo-informatics in disaster management. In this course students will get hands on experience on how the analysis of satellite data and GIS could help in a better way to retrieve essential information for disaster risk reduction. Damage and loss assessment associated with a particular disaster and mapping pre and post disaster scenarios would also be covered.
Disaster Profile Of India	**DM17209GE**	India's unique geo-climatic position makes India particularly vulnerable to disasters. The Spatio-temporal variability of India with respect hazards, vulnerability, exposure, and risk would be covered in this course. The paper will also illustrate the causes and consequences of historical disasters in India.
Global Positioning System (GPS)	**DM17210OE**	GPS providing exact location information has been used in varied fields. The technology is also useful in all phases of disaster management. This course will help the students to know the fundamentals, segments, positioning mechanism, and application of GPS.
Flood Safety and Response	**DM17211OE**	Floods account for around largest share of all the disasters. About 12 percent of the country is exposed to periodic floods. In this course learners would be get deliberations on causes, types, effects, and mitigation and response strategies for the flood hazard.
Vulnerability Assessment	**DM17301CR**	This course aims to deliberate on various physical, social, economic, and environmental aspects of vulnerability. The learners are expected to have an understanding of the vulnerability concept and various criterions of vulnerability assessment.
Disaster Risk Assessment	**DM17302CR**	Risk assessment being an area of immediate importance for disaster risk reduction. During this course students will get awareness about the important components (hazard, vulnerability, and exposure) of disaster risk assessment. Moreover, the important concepts and approaches in disaster risk assessment and other process involved in risk assessment will also be included. This course will help the

		students in knowing about the current status and the gaps in disaster risk assessment.
Field Training For Disaster Management	**DM17303CR**	During this field based training course, students will be taken to field and exposed to socio-economic cum geo-physical environment, so that they are able to evaluate the different dimensions of 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.
Disaster Risk Reduction and Development Planning	**DM17304DCE**	This course covers aspects of disaster risk reduction and development planning. The learners are expected get understanding of how a planned development can minimise the losses associated with disasters.
Hydrology and Hydro-Meteorological Hazards	**DM17305DCE**	In this course the students will be acquainted with the different dimensions of climatic variability which cause a wide range of hydro-meteorological hazards such as floods, droughts, frost, and windstorms.
Climate Change	**DM17306DCE**	Climate change being the most challenging natural process of the present day, the course has been introduced to enable students to get insights about the changing nature of the earth's climate, the causative and controlling factors. The course also covers the policy frameworks, mitigation and adaptation strategies for climate change.
Disaster Sensitive Land Use Planning	**DM17307DCE**	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. Thiscoursecovers the important concepts and aspects of land use planning and discuss the factors governing the land use change. Besides in this course students will get familiar with different techno-legal provisions of India with regard to land use regulations.
Research Methods in Disaster Management	**DM17308DCE**	Considering the broad scope for research in disaster management and its importance as a means of disaster mitigation and preparedness, this course covers different processes and methods involved disaster management research. This course will enhance the skills of the students to tackle the research problems.
Geomorphology	**DM17309GE**	The course has been designed to provide learners an understanding of fundamental principles in geomorphology. The course includes looking at evolution and dynamics of landforms in relation to various exogenic and endogenic processes.
Disaster Prevention	**DM17310GE**	In thsi course the students will be familiarized with, how capacity building is essential for disaster prevention and mitigation. How technological driven initiatives and community based approach help in disaster prevention are also part. Besides this course covers the important aspects of disaster awareness and early warning systems.
Emergency Response	**DM17311OE**	The prompt response to disasters can save lives and reduce the overall adverse impact of disasters. This course highlights the essential components of emergency response suitable for on time action in during different extreme events such as earthquakes, floods etc.
Forecasting and Early Warning Systems	**DM17312OE**	Early warning systems and forecasting has been given credit for preventing and reducing the disaster loss across the globe. In this course the students will get thorough knowledge about the important early warning and forecasting systems and prediction approaches for different natural hazards.
Crisis Management and Incident Response System	**DM17401CR**	The course has been designed to expose learners to the structure and functioning of crisis management and incident response system. The students will also be familiarized with the role of international and national emergency management teams to handle crisis and incident response system in India.

Disaster Management Initiatives & Legal Provisions	**DM17402CR**	This course is aimed to provide students an in-depth knowledge about the various humanitarian, institutional and legal initiatives taken to mitigate disasters at global, national and local level.
Project Work/Dissertation	**DM17403CR**	This course involves components for preparation of dissertation by concerned students on any of the topics relevant to disaster management theme, selected in consultation with the concerned Supervisor/Guide.
Conflicts And Geo-Political Issues in Disaster Management	**DM17404DCE**	This course is aimed at providing in-depth knowledge about the conflicts and geo-political issues that are related to disaster management e.g. the trans-boundary disasters and their management. Besides the refugee crisis and the role and mandate of various global and regional organizations in Geo-political conflicts will also be dealt in the course.
Emergency Medicine	**DM17405DCE**	The course has been developed to make students aware about the application of medical and health disciplines for prevention, preparedness, response and recovery of health problems arising out of disasters. Besides the meaning and significance of disaster medicine, disaster site management, casualty area management, community health management, and application of ICT in health management of disasters will also be covered.
Environmental Impact Assessment and EnvironmentalManagement Programme	**DM17406DCE**	The EIA is very important and has to be undertaken early in the development of proposed projects, plans and programmes and must be completed before a decision to proceed is made. Thus during the course students will be given information about the concept, approaches and legal provisions of EIA/EMP and the various methodologies applied while doing EIA.
Drug Abuse and Human Trafficking	**DM17407DCE**	The epidemic of substance mistreatment in 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 South and South West Asia.
Climatology	**DM17408GE**	The course is designed to provide learners an understanding of fundamental aspects of weather and climate. Moreover, the course would cover other atmospheric phenomenon as well such as the impact of monsoon and western disturbances on the climate of India.
Disaster Management	**DM17409GE**	The main aim of this course is to provide a comprehensive knowledge to the students on disaster preparedness, mitigation, rehabilitation, and recovery. It will also enable the students to know the role and responsibilities of various international, national and regional agencies in disaster management.
Disaster Management For Critical Infrastructure	**DM17410OE**	This course enables students to know about critical infrastructure, disaster vulnerability of basic critical infrastructure and safety measures for critical infrastructure like hospitals, schools, transport etc.
Search And Rescue Operations	**DM17411OE**	Disasters in densely populated areas around the world have increased the need for search and rescue capabilities to assist trapped victims. The said course is thus aimed at enabling students regarding various search strategies, search plan and search teams which help the students to know how to search and rescue during earthquakes, floods, snow avalanches, building fires/collapse.

(2.6.2) Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Upload a description of the method of measuring attainment of POs , PSOs and COs in not more than 500 words and the level of attainment of POs , PSOs and COs***.***

Department/ Centre/ Directorate**: Geography & Regional Development**

(2.6.3) Average pass percentage of students

Data Requirement for last seven years (Academic years 2012 - 2018)

Pass out year	Program Code	Department	Name of theprogram	Number of studentsappeared	Number of students passed	Passpercentage
2012	MAGG	Geography	M.A./M.Sc.Geography	37	34	91 %
2013	MAGG	Geography	M.A./M.Sc.Geography	39	34	87 %
2014	MAGG	Geography	M.A./M.Sc.Geography	40	38	95
2015	MAGG	Geography	M.A./M.Sc.Geography	37	37	100 %
2016	MAGG	Geography	M.A./M.Sc.Geography	38	22	57 %
2017	MAGG	Geography	M.A./M.Sc.Geography	38	22	57 %
2018	MAGG	Geography	M.A./M.Sc.Geography	0	0	0
2015	MSDM	Geography	M.A./M.Sc Disaster Management	17	17	100 %
2016	MSDM	Geography	M.A./M.Sc Disaster Management	17	17	100%
2017	MSDM	Geography	M.A./M.Sc Disaster Management	17	17	100%
2018	MSDM	Geography	M.A./M.Sc Disaster Management	0	0	0

Department/ Centre/ Directorate**: Geography & Regional Development**

(3.1.5) University has the following facilities

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of thefacility	Quantity	Videos/pictures
Global Positioning System(RTK)	02	-
Global Positioning System Handheld Geoxt	01	-
Global Positioning System Handheld Juno	10	-
Electronic Total Station (ETS)	02	-
HP Plotter (60")	01	-
Scanner Vidar (40")	01	-
Computers	40	-

Documents: Videos and photographs geotagged

Department/ Centre/ Directorate**: Geography & Regional Development**

(3.1.6) Percentage departments with UGC-SAP, CAS, DST-FIST,DBT,ICSSR and other similar recognitions by government agency

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of theDepartment	Name of theScheme	Name of the funding agency	Year ofAward	Fundsprovided in Rs.(Lacs)	Duration ofaward
Geography & Regional Development	DST -FIST	DST	2007	35.00	05 Years
	UGC –SAP DRS -I	UGC	2010-15	95.00	05 Years
	UGC –SAP DRS -II	UGC	2016-21	68 .00	05 Years

Upload of departmental recognition award letters on departmental website and send a hard copy and the scannedcopies to office of the DIQA

Department/ Centre/ Directorate**: Geography & Regional Development**

(3.3.3) Numberofawardsforinnovationwonbyinstitution/teachers/research scholars/students during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of theAwardee	Department	Name of the Awarding Agency with contactdetails	Year ofAward
NIL	Nil	Nil	Nil

Documents: Upload of award letters

Department/ Centre/ Directorate: Geography& Regional Development

(3.4.4) Number of Ph.D awarded per teacher during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the Ph.Dscholar	Department	Name of theDepartment	Name of theguide/s	Year of registration of thescholar	Year of award ofPh.D
Mr. Mohammad Imran Malik	Geography	Geography	Prof M.Sultan Bhat	2009	2013
Mr.ZahoorUl Hassan	-do-	-do-	Prof.T.A .Kanth	2009	2013
Mr.Dharamsena	Geography	Institute of Kashmir Studies	Prof M.SultanBhat	2009	2013
Mr.Rafiq Ahmad Hajam	Geography	Geography	Prof.T.A .Kanth Dr.G.M. Rather	2012	2015
Ms.NasrinTabassum	-do-	-do-	Prof.T.A. Kanth	2011	2015
Mr.Showkat Ahmad Ganie	-do-	-do-	Prof M.SultanBhat	2010	2015
Mr.Nissar Ahmad Kuchai	-do-	-do-	Prof M.SultanBhat	2011	2015
Mr.ArifHussain Shah	-do-	-do-	Prof M.SultanBhat	2011	2015
Mr.MohdSabar	-do-	-do-	Prof. IshtiaqA.Mayer	2011	2015
Mr.Rouf Ahmad Dar	-do-	-do-	Dr.G.M.Rather	2011	2016
Ms.TanveeraAhad	-do-	-do-	Prof. T. A. Kanth	2011	2017
Ms.ZoyaKulsumNaqshbandi	-do-	-do-	Prof M. Sultan Bhat	2012	2017
Ms.SidratUlMuntahaAnees	-do-	-do-	Prof M.SultanBhat	2013	2017
Mr.Muzafar Ahmad Wani	-do-	-do-	Dr.Shamim Ahmad	2013	2017
Mr.TawseefYousuf	-do-	-do-	Dr.Shamim Ahmad	2011	2017
Mr.Mohd. ShafiBhat	-do-	-do-	Prof.T.A .Kanth Prof M. Sultan Bhat	2011	2017
Mr. Hakim Farooq Ahmad	-do-	-do-	M.Sultan Bhat	2013	2017
Mr.JahangeerAfzal Parry	-do-	-do-	M.Sultan Bhat	2013	2018
Mr.AadilManzoor Nanda	-do-	-do-	M.Sultan Bhat	2013	2018

Department/ Centre/ Directorate**: Geography & Regional Development**

(3.4.5)Numberofresearchpapersper teacher in the Journals notified on UGCwebsiteduringthelast seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Title ofpaper	Year	Name of theauthor/s	Department of the teacher	Name ofjournal	Year ofpub.	ISBN/ISSNnumber
Analysis and Simulation of Urban Expansion of Srinagar City	2012	Nissar A. Kuchay& M. Sultan Bhat	Geography & Regional Development	Transactions (Institute of Indian Geographers)	2012	0970-9851
Spatial Analysis on the Provision of Urban Amenities- A Case Study of Srinagar City, Jammu & Kashmir, India	2012	J. A. Parray, S. A. Ganie, Z. A. Nengroo, and M. Sultan Bhat	Geography & Regional Development	Research on Humanities & Social Sciences	2012	(P)2224-5766 (O)2225-0484
Reconstructing Past Climate and Natural Disasters in Kashmir Valley: Using Historical Evidence as Climate Proxies	2012	B. Ahmad . K. Ahmad, AkhtarAlam, M. Sultan Bhat.	Geography & Regional Development	Journal South Asian Disaster Studies	2012	0974 – 6463
Delineation of Rural- Urban Fringe- A Case Study of Srinagar City	2012	Zahoor, A. Nengroo, Nissar A. Kuchay& M. Sultan Bhat	Geography & Regional Development	International Journal of Innovative Research & Development	2012	2278-0211
Yield Damage Functions for Tea Sectors in Sri Lanka and India- An Empirical Estimation	2012	P. Dharmasena, & M. Sultan Bhat	Geography & Regional Development	Agriculture Science Digest	2012	(p) 0253-150X (O) 0976-0574
Human health and Mining –A Study of effect of Coal Mining on health of Workers in Rajouri District of Jammu and Kashmir	2012	Ishtiaq A. Mayer, M. Sabar	Geography	Transactions	2012	ISSN 0970-9851
Prospects and Problems of Coal resources in Jammu and Kashmir with Special reference to Rajouri District	2012	Ishtiaq A. Mayer, M. Sabar	Geography	Annals of the National Association of Geographers	2012	ISSN: 0970-972X
Waste Generation and its Management: A case of Srinagar city	2012	Shah S.A	Geography & Regional Development	National Geographical Journal of India, National Geographical Society of India	2012	ISSN: 0027-9374/1454.
Tourism and Lake Sustainability: A case study of Dal Lake	2012	Shah S.A	Geography & Regional Development	International Journal of Environmental sciences	2012	ISSN: 2277-1948
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Flood risk assessment of Srinagar city in Jammu and Kashmir, India	2018	AkhtarAlam, M. Sultan Bhat, Hakim Farooq, Bashir Ahmad, Shabir Ahmad, Ashaq H. Sheikh,	Geography	International Journal of Disaster Resilience in the Built Environment	2018	1759-5908
Hybrid tectonic character of the Kashmir basin: Response to comment on "Coexistent pre-existing extensional and subsequent compressional tectonic deformation in the Kashmir basin, NW Himalaya	2018	AkhtarAlam, M. Sultan Bhat, Bahadur Singh Kotlia, Bashir Ahmad, Shabir Ahmad, Ajay Kumar Taloor, Hakim	Geography	Quaternary International,	2018	1040-6182

(Alam et al., 2017)" by Shah (2017)		Farooq Ahmad.				
Geographical perspective on stunting among rural female children in district Baramulla, J&K-India	2018	Ishtiaq A. Mayer et al	Geography & Reg. Development	Geojournal Springer	2018	03432521
Assessment of earthquake vulnerability & levels of mitigation measures in Srinagar city, j&k-India	2018	Ishtiaq A. Mayer et al	Geography & Reg. Development	International journal of advance research and engineering	2018	23198354
Geo spatial analysis of nutrition and related diseases of south Kashmir in district anantnag, J&K , India	2018	Ishtiaq A. Mayer et al	Geography & Reg. Development	Geojournal Springer	2018	03432521
Geo spatial analysis of land use/land cover change & its impact on the food security in district Anantnag of Kashmir valley	2018	Ishtiaq A. Mayer et al	Geography & Reg. Development	Geojournal Springer	2018	03432521
Sustainable Integrated Solid Waste Management in the Trans-Himalayan Accommodation Sector	2018	Muzafar Ahmad Wani, Zubair Ahmad Dada and Shamim Ahmad Shah	Geography and Regional Development University of Kashmir, Srinagar	African Journal of Hospitality, Tourism and Leisure	2018	2223-814X
Temperature and Precipitation Trends in Kashmir Valley, North Western Himalayas.	2018	MiftaulShafiq, RehanaRasool, Pervez Ahmed and A.P. Dimri	Geography and Regional Development	Theoretical and Applied Climatology	2018	1434-4483
Snow Cover Area Change and Its Relation with Climatic Variability in Kashmir Himalayas, India	2018	MiftaulShafiq, Pervez Ahmed, Zahoorul Islam, P.K.Joshi and Waseem A Bhat	Geography and Regional Development	Geocarto International	2018	1752-0762
"Impact of Crossbred Technology on Milk Producing Efficiency of Dairy Animals in Different Agro- ecological zones of Kashmir Himalayas"	2018	RafiqHussainAndrabi , HarmeetSingh,Tariq Ahmad Lone	Geography & Regional Development	International Journal of Advance Research in Science and Engineering	2018	ISSN: 2319-8354
"Spatial variation of Body Mass Index (BMI) among School children (7-14 years) by sex in Gujars Community of Kashmir Himalayas"	2018	Dr. G. M. Rather	Geography & Regional Development	The Indian Geographical Journal	2018	Submitted
"Evaluation of Long Term Precipitation Trends in Eastern Middle Himalayas: A Study of Darjeeling-India (1901-2000)"	2018	Javeed Ahmad Rather and Bhat M. Shafi,	YES	"Periodic Research", Multi-displinary Peer Reviewed International Research Journal	2018	P: ISSN: 2231-0045, E: ISSN: 2349-9435
"Impact of Climate Change on Spring Season in the North-Western Himalayas: A Study of Kashmir Valley, India (1901-2000)	2018	Javeed Ahmad Rather and Bhat M. Shafi,		"International Journal of Research in Science and Engineering (IJARSE)"		P: ISSN: 2319-8346, E: ISSN: 2319-8354
Impact Of Climate Change On Spring Season In The North-Western Himalayas: A Study Of Kashmir Valley, India (1901-2000).	2018	M. ShafiBhat&Javeed Ahmad Rather	Geography	International Journal of Advance Research in Science and Engineering.	2018	2319-8354
Evaluation of Long Term Precipitation Trends in Eastern Middle Himalayas: A Study of Darjeeling-India (1901-2000):	2018	M.ShafiBhat, Javeed Ahmad Rather	Geography	Periodic Research	2018	2231-0045
Flood risk assessment of Srinagar city in Jammu and Kashmir, India	2018	AkhtarAlam, M. Sultan Bhat, Hakim Farooq, Bashir Ahmad, Shabir Ahmad, Ashaq H. Sheikh,	Geography	International Journal of Disaster Resilience in the Built Environment	2018	1759-5908
Hybrid tectonic character of the Kashmir basin: Response to comment on "Coexistent pre-existing extensional and subsequent compressional tectonic deformation in the Kashmir basin, NW Himalaya (Alam et al., 2017)" by Shah (2017)	2018	AkhtarAlam, M. Sultan Bhat, Bahadur Singh Kotlia, Bashir Ahmad, Shabir Ahmad, Ajay Kumar Taloor, Hakim Farooq Ahmad.	Geography	Quaternary International,	2018	1040-6182

Department/ Centre/ Directorate**: Geography& Regional Development**

(3.4.6) Numberofbooksandchaptersineditedvolumes/bookspublished, and papers in national/international conference-proceedings per teacherduringthelast seven years

Data Requirement for last seven years (Academic years 2012 - 2018f)

Name of the teacher: Title of thepaper	Department	Title of the book published: Name of the author/s: Title ofthe proceedings of theconference	Name of the publisher: National /International	National / international : ISBN/ISSN number of theproceeding	Year ofpublication:
Mohd. ShafiBhat	Geography	Text Book of Geography Class-X	JKBOSE		2015
Dr. G. M. Rather	Geography & Regional Development	Geographical Aspects of Health and Disease in India	Concept Publishing Company, New Delhi / National	13: 978-81-8069-459-2	2018
Dr Mohammad ShafiBhat	Geography	Critical Reflections and Explorations in Regional Development:Insights from North Western India Edited By EffatYasmeen&JavaidIqbal Khan,	Published by Kalpaz publications, C-30 Satayawati Nagar, Delhi-110052:	9789386397744	2018:
Ishtiaq.A.Mayer et al.	Geography	Multidimensional approach to quality of life issues- A spatial analysis B R Sinha	Springer Nature Singapore		2018
Ishtiaq.A.Mayer et al.	Geography	GEOGRAPHICAL ASPECTS OF HEALTH AND DISEASE IN INDIA RaisAkhtar&Learmonth.	Concept publisher New Delhi		2018
Ishtiaq A. Mayer et al	Geography	Critical reflections & explorations in regional development Insights from north west India EffatYasmin&JavaidIqbal	Kalpaz publications	9789386397744	2018

Department/ Centre/ Directorate**:** **Geography& Regional Development**

(3.5.2) Revenue generated from consultancy during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the consultants	Department	Name of consultancy project	Consulting/sponsoring agency with contact details	Revenue generated (amount in rupees)	Total revenue generated (in rupees)
Prof. M. Sultan Bhat	Geography	EIA & EMP	Wular Development Authority, Govt. of J & K	1,00,000.00	1,00,000.00
Prof. M. Sultan Bhat	Geography	EIA & EMP	Yousmarg Development Authority, Govt. of J & K	1,00,000.00	1,00,000.00

Department/ Centre/ Directorate**: Geography& Regional Development**

(3.5.3) Revenue generated from corporate training by the institution during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Names of the teacher – consultants	Department	Title of the corporate training program	Agency seeking training with contact details	Revenue generated (amount in rupees	Number of trainees	Total revenue generated in rupees
Nil	Nil	Nil	Nil	Nil	Nil	Nil

Documents: Audited statements of account indicating the revenue generated through consultancy.

Department/ Centre/ Directorate**: Geography& Regional Development**

(3.6.3) Number of extension and outreach programs conducted in collaboration with industry, community and Non-government Organisations through NSS/NCC/Red cross/YRC etc., during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Name and number of the extension and outreach programs	Department	Name of the collaborating agency: Non-government, industry, community with contact details
Nil	Nil	Nil

Department/ Centre/ Directorate**: Geography & Regional Development**

3.7.1 Number of collaborative activities for research, faculty exchange, student exchange per year

Data Requirement for last seven years (Academic years 2012 - 2018)

Title of the collaborative activity	Department	Name of the collaborating agency with contact details	Source of financial support	Year of collaboration	Duration	Nature of the activity
Research Project	Geography	Prof M. Sultan Bhat	Indian Council of Social Science Research	2015-2017	03 Years	Research Project

Department/ Centre/ Directorate**: Geography& Regional Development**

(3.7.2) Number of linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the last seven years

Data Requirement for last seven years (Academic years 2012 - 2018)

Title of the linkage	Department	Name of the partnering institution/ industry/ research lab with contact details	Year of commencement	Duration (From-to	Duration (From-to)	Nature of linkage
Student Internship	Geography	Utrakhand, Academy of Administration, Nanital.	2015			Academic
Student Internship	-do-	National Institute of Disaster Management (NIDM) New Delhi	2016			Academic

Documents: Upload the linkages with institutions/ industries

Department/ Centre/ Directorate**: Geography & Regional Development**

3.7.3 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last seven years (only functional MoUsongoing activities to be considered)

Data Requirement for last seven years (Academic years 2012 - 2018)

Organisation with which MoU is signed	Departme nt	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU	Number of students/ teachers participated under MoUs
Nil	Nil	Nil	Nil	Nil	Nil	Nil

Documents: Upload the MoUs with institution/ industry/ corporate house

Department/ Centre/ Directorate**: Geography& Regional Development**

(4.1.2)The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) and cultural activities

Upload a description of adequate facilities for sports, games and cultural activities which include specification about area/size, year of establishment and user rate.

Nil

Department/ Centre/ Directorate**: Geography& Regional Development**

4.1.3 Percentage of classrooms and seminar halls with ICT-enabled facilities such as smart class, LMS, etc.

Data Requirement for last seven years (Academic years 2012 - 2018)

Number of classrooms with LCD facilities	Department	Number of classrooms with wi-fi/ LAN facilities	Number of seminar halls with ICT facilities
03 classrooms out of 03 are ICT enabled	Geography	02 (Labs)	01

Department/ Centre/ Directorate**: Geography & Regional Development**

(5.2.1) ***Average percentage ofplacementofoutgoingstudentsduringthelast seven years***

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the employer with contactdetails	Department/Year	Number of studentsplaced
Kashmir Administrative Services	2013	02
Kashmir Police Services	2013	02
School Education Department	2013	02
Kashmir Administrative Services	2014	02
School Education Department	2014	02
School Education Department	2015	02
J & K State Disaster Management Authority	2016	15
School Education Department	2016	05
Social Welfare Department	2016	01
JK Revenue Department,	2016	01
SAUDI ARAMCO (MNC) Ltd.	2016	01
Higher Education Department, J&K	2016	14
School Education Department, J&K	2016	07

Document:Upload annual report of placementcell

Department/ Centre/ Directorate**: Geography& Regional Development**

(5.2.2) ***Percentage of student progression to higher education (previous graduating batch)***

Data Requirement for last seven years (Academic years 2012 - 2018)

UG toPG:	Department	PG toMPhil:	PG toPhD:	MPhil to PhD:	PhD to Postdoctoral:
5 %	Geography	20 %	15 %	80 %	Nil

Document: Upload document from Student/alumni database

Department/ Centre/ Directorate**: Geography& Regional Development**

(5.2.3) Averagepercentageofstudentsqualifyinginstate/national/ international level examinations during the last seven years (eg: NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State governmentexaminations)

Data Requirement for last seven years (Academic years 2012 - 2018)

Year	NET	SLET	GATE	GMATE	CAT	GRE	TOEFL	CivilServices	State governmentexaminations
2012	22	0	0	0	0	0	0	0	0
2013	30	0	0	0	0	0	0	0	0
2014	16	0	0	0	0	0	0	0	0
2015	11	01	0	0	0	0	0	0	0
2016	09	08	0	0	0	0	0	0	0
2017	24	0	0	0	0	0	0	0	0
2018	25	07	0	0	0	0	0	0	0

Document: Upload document from Student/alumnidatabase

Department/ Centre/ Directorate**: Geography& Regional Development**

(5.3.1)Numberofawards/medalsforoutstandingperformanceinsports/cultural activitiesatnational/internationallevel (awardforateameventshouldbe countedasone) duringthe

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the award/medal	Department	National/International	Sports/Cultural
Nil	Geography	2012-2016	Nil

Document: Upload award letters and certificates

Department/ Centre/ Directorate**: Geography& Regional Development**

(5.3.3)Averagenumberofsportsandculturalactivities/competitionsorganisedat theinstitutionlevelperyear

Data Requirement for last seven years (Academic years 2012 - 2018)

Name of the activity	Department
Nil	2012-2018