



University of Kashmir, Srinagar-6, J&K

NAAC Accredited Grade "A"

P.G. Department of Geography & Regional Development

(DST-FIST Sponsored and UGC-SAP Assisted Department)

COURSE STRUCTURE

FOR

**CHOICE BASED CREDIT SYSTEM
(CBCS)**

OF

1st SEMESTER

**M. A. / M. Sc. GEOGRAPHY
(2017 & Onwards)**

M.A./M.Sc. Programme in Geography and Regional Development
(2017 & Onwards)

CHOICE BASED CREDIT SYSTEM (CBCS)

Course Description

The M.A / M.Sc Post Graduate Programme in Geography is of two years, based on 96 credits comprising of four semesters. All the 96 credits will spread over 6 different components viz: I) Teaching, II) Tutorial, III) Seminar, IV) Practical, V) Field Tour & VI) Project Work/ Dissertation. The students are offered (44) Papers Comprising of (12) Core Courses, which are compulsory, along with (16) Discipline Centric Theory Courses (8) Generic Elective & (8) Open Elective Courses.

NOTE: A credit means one hour of teaching/work or two hours of practical work/tutorial per week for 16 weeks in a semester.

- ❖ A candidate compulsorily has to obtain 24 credits per semester i.e., 48 credits in one year programme (2 semesters), 96 credits in two year programme (4 semesters).
- ❖ A candidate has to obtain minimum of 24 credits in a semester; 12 credits compulsorily are to be opted from “Core Courses”, while the remaining 12 credits can be obtained in the following ways:
- ❖ 8 credits are to be obtained from Discipline centric courses
- ❖ At least 2 credits are to be obtained from Generic Elective courses, however a candidate has an option to take 4 credits from the GE Courses
- ❖ A candidate has a choice to take a maximum of 2 credits if required from Open Elective courses.

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Semester - I

Course	Course Title	Category	Hours per week			Credits
			L	T	P	
GG-CR -17101	Geomorphology	core	4	2	0	4
GG-CR-17102	Evolution of geographic thought	core	4	2	0	4
GG-CR-17103	Advanced quantitative and cartographic techniques	core	0	0	8	4
GG-DCE-17104	Geography of tourism	Discipline Centric Elective	3	2	0	3
GG-DCE-15105	Medical Geography	Discipline Centric Elective	2	2	0	2
GG-DCE-17106	Hydrology & Oceanography	Discipline Centric Elective	3	2	0	3
GG-DCE-17107	Fluvial Geomorphology	Discipline Centric Elective	2	2	0	2
GG-GE-17108	Geography of Jammu & Kashmir	Generic Elective	2	2	0	2
GG-GE-17109	Climatology	Generic Elective	2	2	0	2
GG-0E-17110	Study of Maps and Globe	Open Elective	2	2	0	2
GG-GE-17111	Global Positioning System	Open Elective	2	2	0	2

Credit-I

1. Evolution of Geomorphic Thought
2. Fundamental Concepts;
 - a. Uniformitarianism
 - b. Geological Structures
 - c. Order of Superposition
3. Multicyclic and Polygenic Evolution of Landscapes.

Credit-II

1. Eperogeneric and Organic Earth Movements
2. Sea floor spreading
3. Plate Tectonics
4. Evolution and Structure of Himalayas

Credit-III

1. Exogenic and Endogenic processes
2. Concepts , Agents and Processes of Gradation
3. Types and Classification of Weathering
4. Types and Classification of Mass Movements
5. Slope Elements and Slope Evolution

Credit-IV

1. Karst topography
2. Erosional landforms
3. Valleys of Karst region
4. Depositional landforms
5. Karst cycle of erosion

Credit-I:

1. Changing nature of geography
2. Paradigm shift in Geography from modern to postmodern period
3. Development of Geography in India
4. Quantitative revolution in geography

Credit-II:

1. Development of Scientific Geography. (Immanuel Kant, Bernhard Varineus, Humboldt, and Carl Ritter)
2. German school of Thought- Contribution of Ratzel, Alfred Hettner and Penk
3. French school of Thought- Contribution of Vidal-de-la Blache, Jean Brunches, De Morton

Credit-III:

1. British school of Thought- J.H. Mackinder, Geddes, Stamp
2. Soviet Union school of Thought- V.V. Dokuchaiev, Voeikov and Anuchin
3. American school of Thought- Davis, Churchill Semple , Huntington and Hartshorne

Credit-IV:

1. Recent concepts- Areal differentiation, spatial organization, spatial diffusion
2. Concept of Wellbeing , space and place
3. Concept of positivism, pragmatism, idealism, realism
4. Recent approaches- radical approach, Humanistic approach, Behavioral approach
5. Darwin's impact on geography

Credit-I:

1. Correlation, types of correlation, Forms of relation and measuring the strength of association and relation. Construction and meaning of scatter Diagram, Karl Person's Coefficient of Correlation, Rank Correlation
2. Linear regression Analysis
3. Multiple correlation
4. Partial correlation coefficient
5. Multiple Regression
6. Coefficient of Determination

Credit-II:

1. Lorenz Curve and Gini's Coefficient
2. Location Quotient
3. Time series: Moving average, least square method and drawing of line of best fit, second degree equation
4. The exponential curve, Logistic curve
5. Interpolation
6. Sampling its types, t test, Z test, Chi Square test, Mann Whitney- U Test

Credit-III:

1. Cartographic methods and techniques for preparation of maps and diagrams, types and applications
2. Calculation of gradient and slope
3. Went worth's Method of average slope

Credit-IV:

1. Digital Mapping: Preparation of thematic maps
2. Analysis of Socio Economic data with the help of SPSS and presentation in Maps with the help of GIS
3. crop combination data (weaver's, Thomson's, and Rafiullah's, method)
Socio-Economic data (Construction of composite index and mapping of Regional disparities). Livestock data , Hydrometeorological data in maps

Credit-I:

1. Definition and Scope of Tourism Geography
2. Components of tourism
3. The use of Geographical Resources for Tourism
4. Theories of Tourist development
5. Sustainable Tourism; Carrying Capacity

Credit-II:

1. Tourism Motivation
2. Types and Forms of Tourism
3. Infrastructure and Support System
4. Accommodation and Supplementary Accommodation
5. Tourism planning and its approaches

Credit-III:

1. Indian Tourism ; Regional Dimension of Tourist attraction
2. National Tourism Policy
3. Tourism in J&K: Tourist Resources; Tourist Flow and Distribution pattern; Tourism accommodation
4. Impact of Tourism: Environmental; Economic; Social and Cultural
5. GIS and Tourism; Tool for Applied Geography Research

Credit-I:

1. Relevance of Medical Geography in contemporary world
2. Paradigm shift in Medical Geography
3. World Health Organization and its mandate
4. Medical Pluralism
5. Disease Diffusion and types

Credit-II:

1. Socio – cultural and Economic factors affecting human health
2. Geo-ecology and spatial pattern of Cardiovascular, AIDS, Malaria, and Cancer, diseases in India.
3. Geo-etiology of diseases like Tuberculosis and Goiter in Jammu and Kashmir.
4. Health and healthcare behavior in developing countries.
5. Regional Inequalities in Health Care in J &K.

Credit-I:

1. Introduction to Hydrology
2. Hydrological Cycle and Global water balance
3. Groundwater: Origin, Occurrence, Quality and Movement
4. Aquifers and their types
5. Rain water harvesting: models and feasibility
6. National water policy and Water Crisis in India

Credit-II:

1. Introduction to Oceanography
2. Evolution of Continents and Ocean Basins
3. Marine biological environment
4. Waves and their types
5. Ocean currents and their significance
6. Ocean Conveyer Belts

Credit-III:

1. Coral reefs: theories of formation (Darwin and Dally)
2. Oceans as store houses of Non-conventional sources of energy.
3. Food resources & Mineral resources of the Oceans
4. Law of the Sea & Exclusive Economic Zone
5. Climate change and oceans; Sea level change and its implications
6. Role of oceans in regulating green house effect/Marine Biological Pump

Credit-I

1. Fluvial Geomorphology and Geography
2. Fluvial processes and related landforms
3. Drainage Basin – a fundamental geomorphic unit
4. Drainage pattern, Evolution and types

Credit-II

1. Mechanics of Fluvial Erosion : Overland , Through & Groundwater Flow
2. Sediment Transport : Dissolved, Suspended & Bed Load
3. Channel Geometry & Flow: Geometry
4. Sources of Stream Flow & Flow Velocity
5. Stream Gradation: Modern Theories, Graded Stream

No. of Credits-2

1. Jammu and Kashmir State – its space relationships
2. Relief and Physiography
3. Climate and natural vegetation
4. Drainage System
5. Population: distribution, density and growth
6. Population structure and composition
7. Agriculture of Jammu and Kashmir and Horticulture of J&K with respect to apple and saffron
8. Tourism in Jammu and Kashmir
9. Energy resources of Jammu and Kashmir (hydal and geothermal)

No. of Credits-2

1. Climatology and its relation with Meteorology
2. Evolution of earth's atmosphere
3. Global Circulation system
4. Air masses, Fronts & Frontogenesis
5. Climatic classification; Koppen
6. Climatic Change and Indicators- Geomorphic , Geological and Lithological
7. Climate of India & Its controls ; Western disturbances
8. Theories of Indian Monsoon : a) Classical theory b) Modern theory

No. of Credits = 2

1. Maps –Meaning, Significance and Types.
2. Difference between Map and Site Plan
3. Elements of Maps.
4. Scale- Meaning, Necessity and Types.
5. Signs and Symbols.
6. Study of Topographical Maps.
7. Globe as model of Earth.
8. Determination of Co-ordinates- latitude , Longitude and altitude.

No. of Credits = 2

1. GPS -Fundamentals
2. GPS -Functioning
3. GPS -Segments
4. GPS positioning-Types
5. Limitations of GPS Positioning
6. Land surveying- Location and Measurements
7. Traffic applications