

## **University Department of Geography**

### **Programme Outcomes**

The University Department of Geography specially focuses on development of subject capabilities and gaining practical knowledge. It tries to infuse and build cultural and social awareness of social responsibilities, understanding of contemporary issues, understanding environmental and climate change issues, economic, energy and resource development. It focusses on to find out and solve conflicting situations and disagreements through actions and alternatives. It specially focusses on research, collaboration, conducting seminars/webinars and field surveys for betterment of the student's education. The department is committed for providing true education and aimed at understanding the complex and diverse social and cultural realities. It also provides the advanced education, academic research, inclusive education, social, cultural and gender justice.

### **Programme Specific Outcomes**

#### **(a)M.A. in Geography Programme**

The main purpose of this programme is of understanding the basic and core concepts and gaining practical knowledge in Geography. It intends to study environmental, cultural, social, economic, energy and resources, political geography, development, transport, GIS and remote sensing, population and tourism for understanding the various in the area and field of Geography. It tries focusses on analysing and comparing the theories of study and its utility for the society, nation and for the world. Its objective of study is understanding and evaluate the policy formulations and suggestions for better implementation. The M.A. in Geography has core and elective papers(DSE) and Project papers also. Many students take admission into this programme through the Chancellor portal. The new CBCS revised programme was introduced 2020-22 session. The CBCS semester system earlier introduced in 2017. Through this system, it aimed to impart education both core and elective courses which are both foundational and advanced in nature and more flexible.

#### **(b)PhD in Geography**

The University Department of Geography has PhD Programme and students take admission as per regulations. There are five students have been awarded PhD degree and University had the 5<sup>th</sup> Convocation ceremony on 08-04-2022 for awarding degrees. The students have also registered into PhD course. The all admissions, course works and conferment of degree is guided by the regulations. The degree is awarded to the candidate on the basis of original research work, recommended by a board of examiners and after successfully defended by the candidate during Viva-Voce. There is Department Research Council(DRC) in the Department and it monitors and decide upon all research work in the department. The University conducts PhD entrance test (PET) to take admissions into PhD programme. The candidates having MPhil and NET/JRF are exempted from PhD entrance Test. It conducts course work for taking registration into PhD programme and MPhil students are exempted from the course work. It conducts the Pre-Registration seminar and monitors all research work of the students through the DRC.

## **Course Outcomes**

The Choice Based Credit System (CBCS) new admission & examination regulation for PG in Geography Courses became effective from the academic session 2020-2022. The CBCS course structure for M.A., in Geography specially designed and structured for more flexible and opportunities for students of Geography pursuing Master Degree. As per the recommendations of UGC and NAAC for improving the quality and effectiveness of Higher Educational Institutions (HEIs) in India, Kolhan University aimed at introducing CBCS system with overall improvement in higher education system with uniformity grading system, computing the cumulative grade point average (CGPA). This semester based performance in the examinations have total four semesters. There are two Project Papers, one in third semester and other one is in fourth semester and one practical paper in each semester.

## **PG SEM 1 : GEOGRAPHY**

### **History of Geographical Thought: CORE COURSE- 1 (CC- 101)**

#### **Objective –**

- To Introduce the students to the philosophical and Historical foundations of subject and its place in the world of Knowledge.

#### **Learning Outcome -**

- To Familiarize them with the major landmarks in the development of Geographical thought at different periods of time.
- To know the future of Geography as well as current status of Geography in India and man environment relation in the context of Geography.

### **GEOMORPHOLOGY: CORE COURSE- 2 (CC- 102)**

#### **Objective –**

The objective of the course is to familiarize the students with need for –

- Understanding of Geomorphology with reference to certain fundamental concepts.
- To focus on the unit of Geomorphology in the materials and the processes with or without an element of time.

#### **Learning Outcome -**

- To know about different landforms resulted by different process i.e. endogenetic & exogenetic.
- Process component of Geomorphology is segmented in to the internal and external process of landscape evolution.

### **GEOGRAPHY OF RESOURCE AND DEVELOPMENT: CORE COURSE- 3 (CC-103)**

#### **Objective –**

- To Know about resources, classification of resources, conservation of resources for next generation.

#### **Learning Outcome -**

- To deeply know about Biotic & Abiotic resources, resource development and management.
- Population pressure on resources, population resources regions, Sustainable development parameters of sustainable development.

#### **GEOGRAPHICAL INFORMATION SYSTEM & REMOTE SENSING: CORE COURSE- 4(CC- 104)**

#### **Objective –**

- To introduce Geographical Information System & Remote Sensing to students.
- Historical development of G.I.S. & Remote Sensing as well as different Indian Space Programmes.

#### **Learning Outcome -**

- Application of Remote Sensing & GPS in Geographical studies.
- To know different aspects of Map projection & advance cartography in details.

#### **PRACTICAL: CORE COURSE (P)-5 (CC(P)- 105)**

#### **Objective –**

- To introduce the students about Instrumental Survey as well as application of different selected Instruments i.e., Plane Table, Prismatic Compass.

#### **Learning Outcome -**

- The main objective of field work (physical) to conduct and extensive survey of a continuous wider region and identify silent landforms, their genesis and their impact on human life, flora and fauna.

#### **PG SEM 2 : GEOGRAPHY**

#### **CLIMATOLOGY: CORE COURSE- 6 (CC- 201)**

#### **Objective –**

- The Aim of the courses to provide an understanding of weather phenomena, dynamics of global climates and generation of climatic information and their application.

#### **Learning Outcome -**

- To know about El-Nino, Southern Oscillation (ENSO), La-Nina, Monsoon winds & Norwesters.
- Different classification of climate i.e., Koppen & Thornthwaite, Climatic change, Global warming & Thunderstorms etc.

#### **REGIONAL GEOGRAPHY : INDIA & JHARKHAND : CORE COURSE- 7 (CC- 202)**

#### **Objective –**

- To understand India in terms of various regional divisions, their important characteristics, Intra-regional linkages to analyse the natural and human resource endowments, their conservation and management.

**Learning Outcome -**

- To know about regionalization of India & Jharkhand, Minerals and power resources of India & Jharkhand.
- Population of India & Jharkhand, Population policy, prospects and problems of Tourism in Jharkhand.

**ECONOMIC GEOGRAPHY: CORE COURSE- 8 (CC- 203)**

**Objective –**

- The economy of world is changing in recent times. The Changes in primary, secondary and tertiary stage is dynamic in nature. In view of this the objectives of this course are to integrate the various factors of economic development to acquaint the students about dynamic aspects of Economic Geography.

**Learning Outcome -**

- To know about Mineral resources, power resources, Agriculture resources & major Industries of the world.
- World Transportation, Agriculture regions of the world and major trade blocks like NAFTA, EEC & ASEAN etc.

**ENVIRONMENTAL GEOGRAPHY: CORE COURSE- 9 (CC- 204)**

**Objective –**

- To know about environment, approaches to study of environment Geography and environment & development.

**Learning Outcome -**

- Environmental hazards like landslide, Soil erosion, Drought, Floods, Earth quake & Volcanoes, Green house effect, Global warming, Ozone depletion.
- To study about pollution, pollutants, Sources, types of pollution, environmental managements, environmental policy, environmental protection act and impact assessment of environment.

**PRACTICAL: CORE COURSE (P)- 10 (CC(P)- 205)**

**Objective –**

- To know about Geological maps and its interpretation, Construction of Profiles like Serial, Superimposed, Composite & Projected based on Topographical Sheets.
- To Interpret the Topographical Sheet in terms of Relief, Drainage, Vegetation, Settlement, Transportation and Communication.

**Learning Outcome -**

- To Construct different types of Map Projection like Cylindrical, Conical, Zenithal & Conventional.
- To learn the importance of field Survey with the help of Dumpy Level, Theodolite, Indian Clinometer, Abney Level, Sextant etc.

**PG SEM – 3 : GEOGRAPHY**  
**OCEANOGRAPHY: CORE COURSE- 11 (CC- 301)**

**Objective –**

- To Know about different Oceans of the world, History of Oceanography & development of Oceanography as a discipline.

**Learning Outcome -**

- To study about physical and chemical properties of Sea water, Ocean currents, Wave & Tides.
- Major features of Ocean basin, Relief of Ocean basin, Marine deposits and resources, Coral reefs, types of organisms like Plankton, Nekton and Benthos.

**SETTLEMENT GEOGRAPHY: CORE COURSE- 12 (CC- 302)**

**Objective –**

- To know about human settlement, Theories of evolution of settlement, recent trends in size and growth of settlement.
- To study about morphological structure of settlement in rural and urban areas, functional classification of urban centres, city region and rural frinze.

**Learning Outcome -**

- Settlement hierarchy and different theories of Christaller and Losch (CPT) and their application to settlement hierarchy.
- To know about Urban renewal, Urban Sprawl, Slums, Green belts, Garden cities etc.

**DISCIPLINE SPECIFIC ELECTIVE- 1 (DSE- 301)**

Students can choose opt any one of the following paper

**(1) POPULATION GEOGRAPHY (2) AGRICULTURE GEOGRAPHY (3) REGIONAL GEOGRAPHY OF THE WORLD**

**(1) POPULATION GEOGRAPHY : DISCIPLINE SPECIFIC ELECTIVE- 1 (DSE- 301)**

**Objective –**

- To know about population Geography and Demography, development of population Geography as a field of specialization, sources of population data & Census process of major countries.
- To study about population distribution i.e., density and growth, world pattern and population dynamics, Demographic transition theories, Migration : National & International pattern.

**Learning Outcome -**

- To know about population composition on the basis of Age, Sex, Literacy, Religion, Caste, Tribe, Rural & Urban. Trends of Urbanization in India & world, Problems of Urbanization.

- Clarify the concept of under population, over population and optimum population. India's population policy, population resource region and to know the importance of research in population Geography.

### **(2) AGRICULTURE GEOGRAPHY : DISCIPLINE SPECIFIC ELECTIVE- 1 (DSE- 301)**

#### **Objective –**

- To know the significance of Agriculture, development of Agriculture Geography, approaches to the study of Agriculture Geography.

#### **Learning Outcome -**

- To study about methods & types of cultivation, crop combination & crop diversification and specific problems in agriculture in India & their management.
- To know the importance of agriculture policy in India, different theories of agricultural location & classification of agriculture regions of the world.

### **(3) REGIONAL GEOGRAPHY OF THE WORLD : DISCIPLINE SPECIFIC ELECTIVE- 1 (DSE- 301)**

#### **Objective –**

- To promote the regional study of the different continental region of the world with the help of regional approaches in Geography.
- To know about Asia continent in terms of Physiography, Climate, Natural vegetation, Soil, Agriculture, Minerals, Population & Industrial regions and Important countries like Japan, Sri Lanka.

#### **Learning Outcome -**

- To know about Europe continent in terms of Physiography, Climate, Natural vegetation, Soil, Agriculture, Minerals, Population & Industrial regions and Important countries like U.K. & New England.
- To know about North & South America continent in terms of Physiography, Climate, Natural vegetation, Soil, Agriculture, Minerals, Population & Industrial regions and Important countries like Canada & Brazil.
- To know about Africa & Australia continent in terms of Physiography, Climate, Natural vegetation, Soil, Agriculture, Minerals, Population & Industrial regions and Important countries like Egypt & New Zealand.

### **PRACTICAL: DISCIPLINE SPECIFIC ELECTIVE- 2 (DSE(P)- 302)**

#### **Objective –**

- To know about History and Techniques of Cartography, Sources of Data collection & Sampling.

#### **Learning Outcome -**

- To learn how to construct different Population, Economic & Climatic diagrams with the help of different data.
- To understand modern Technique in Geography like GIS, Remote Sensing, Air photography & Advanced Cartography techniques etc.

### **INTER DISCIPLINARY RESEARCH METHODS AND TECHNIQUES DISSERTATION / PROJECT (PR)-1 (PR-301)**

## **Objective –**

- To know how to improve research temperament in the post graduate students.

## **Learning Outcome -**

- To learn how to grab skill to write dissertation or project under the supervision of any particular Supervisor.
- To know about how to write research paper & articles with the help of research component like Data, Interview & Questionnaire etc.

### **PG SEM – 4 : GEOGRAPHY**

#### **REGIONAL PLANNING & DEVELOPMENT: CORE COURSE - 13 (CC-401)**

## **Objective –**

- To know about Regional concepts in Geography, types of Region like formal and functional, Uniform and Nodal regions and their utility in planning.

## **Learning Outcome -**

- To understand the concept of Regional Hierarchy, Multi-level planning for developing any particular region, Decentralized planning, People's participation in planning.
- To study about the indicators of development and their disparities, Problems & prospects of regional planning in India.

#### **URBAN GEOGRAPHY AND PLANNING: CORE COURSE - 14 (CC-402)**

## **Objective –**

- To understand the concept of Urban Geography, Geographical approaches to the study of Urbanization and recent trends in Urbanization.
- To know about characteristics of cities in different historical periods with reference to India, Classification of Urban centres on the basis of size and functions, Functional classification of Towns.

## **Learning Outcome -**

- To study about Urban Issues like Unemployment, Poverty, Slums, Crime etc. New trends in Urban planning, National Urban Policy.
- To learn about law of Primate city, Nearest Neighbour Analysis, Rural Urban Fringe, Rank Size rule etc.

#### **DISCIPLINE SPECIFIC ELECTIVE- 3 (DSE- 401)**

**Students can choose opt any one of the following paper.**

#### **(1) SOCIAL AND CULTURAL GEOGRAPHY (2) SOIL AND BIO-GEOGRAPHY (3) GEOGRAPHY OF TRANSPORT AND TOURISM**

#### **(1) SOCIAL AND CULTURAL GEOGRAPHY: DISCIPLINE SPECIFIC ELECTIVE- 3 (DSE- 401)**

## **Objective –**

- To know about the development of Social Geography, Philosophical bases of Social Geography i.e., Positivism, Structuralism etc.

### **Learning Outcome -**

- To Understand about Geographical bases of Social formation, Contribution of Social Geography to Social theory.
- To learn about different tribes in India : Gond, Bhil, Santhal, Oraon, Munda & different tribes of world : Eskimo, Pygmy, Bushman etc during study Social & Cultural Geography and Cultural realms.

### **(2) SOIL AND BIO GEOGRAPHY: DISCIPLINE SPECIFIC ELECTIVE- 3 (DSE- 401)**

### **Objective –**

- To know about significance of Soil Geography and its relationship with Pedology, processes of Soil formation and development & Soil profiles (Podzols, Chernozems and Laterites).
- To understand about morphology, texture, structure, water, air, temperature and other physical & Chemical properties of Soil, Genetic classification of Soils, Taxonomic classification of Soils.

### **Learning Outcome -**

- To learn the concept of Bio-diversity and Ecosystem, Definition of Bio-diversity, Loss of Bio-diversity, Conservation of Bio-diversity, biological diversity and future changes in Climates.
- To Understand the Food chains, different cycles like The Nitrogen cycle, The Carbon cycle, The Hydrological Cycle & The Phosphorus Cycle.

### **(3) GEOGRAPHY OF TRANSPORT AND TOURISM : DISCIPLINE SPECIFIC ELECTIVE- 3 (DSE- 401)**

### **Objective –**

- To know about historical development of Transport Geography, factors associated with development of Transport Geography, Role of Transport in Regional planning & development.
- To learn about Transport policy and planning, Transport development in developing countries, Alternatives to transport system in Mega cities of India.

### **Learning Outcome -**

- To understand the concept of the Geographical Tourism, Factors influencing tourism, Motivating factors for Pilgrimages, elements of Tourism as an Industry, Tourism types like Coastal & Adventure tourism and National & International tourism.
- To know about recent trends of tourism, Tourism Circuits, Environmental laws and tourism, Spatial pattern and recent changes, Role of Foreign capital and impact of Globalization on tourism, India hotel Industry.

### **PRACTICAL : DISCIPLINE SPECIFIC ELECTIVE- 4 (DSE(P)- 402)**

### **Objective –**

- To know how to draw Ogive, Lorenz Curve & Band graph in practical portion of Geography.

### **Learning Outcome -**

- To understand how to construct Triangular Diagram, Block Pile Diagram, Population projection, Population diagram, Spheres, Dispersion etc in Practical Geography.
- To understand the relevance of Study Tour or Excursion on different Geographical location and making Survey reports.

## **DISSERTATION / PROJECT : PROJECT (PR)-2 (PR-401)**

### **Objective –**

- To understand the research guidance in terms of Innovation, research, design, Thesis writing, Articles writing and grow of Research temperament.

### **Learning Outcome -**

- To Know about how to write Dissertation or Project on any particular topic under the supervision of any particular Supervision.