

# Department of Geography

## **PROGRAMME OUTCOME (PO)**

**After the completion of B.A. Honours Degree Programme, the students will be able to:**

- PO1: Professional knowledge:** Acquire profound knowledge of humanities concepts and principles such as philosophical, sociological, political, historical economic etc. foundations of education.
- PO2: Critical and Cognitive skills:** Develop and Demonstrate the ability to insightful response and analysis of a work of art in order to participate in discussions and studio critiques
- PO3: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO4: Effective Communication:** Demonstrate familiarity with and ability to analyze both verbally and in writing issues and forms of contemporary art with a clear understanding of historical precedents.
- PO5: Research and Analysis:** Demonstrate analytical skill and proficiency in a range of tools and techniques used in research in social science.
- PO6: Employability and higher Education:** Show proficiency in professional, employability and soft skills required for higher education and placements.
- PO7: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the humanitarian practice.
- PO8: Arts and Society:** Apply humanities knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional arts practice.
- PO9: Interdisciplinary Learning:** Integrate academic curriculum with other co-curricular goals, such as career development, life-long learning, develop interdisciplinary learning and opportunity to extend their knowledge across disciplines.
- PO10: Nation Building:** Introspect and evolve into dynamic and creative individuals capable of socially productive, constructive actions that positively impact our Nation and the world at large

## **Programme Specific Outcome (PSO) of B.A. Geography**

**The Bachelor of Arts in Geography Programme will enable the students to:**

- PSO1:** Understand complex interactions between physical environment and people around the world.
- PSO2:** Distinguish and classify human characteristics, human activities and processes, and interpret their spatial distribution on the Earth's surface.
- PSO3:** Design maps and use them in analyzing and interpreting various patterns of physical and human characteristics on the Earth's surface.
- PSO4:** Learn to apply geospatial tools and statistical knowledge to recognize real-world problems
- PSO5:** Explain principles, tools and techniques of cartography, remote sensing, and geographic information systems.
- PSO6:** Become better planner, analytics, and better administrator in a competitive World and to increase their employability in Census, NIEPA, NCERT, Regional Planning, Town Planning, Smart City Planning section etc.
- PSO7:** Acquire awareness towards gender, environment, sustainability, human values, and professional ethics and understand the difference between acting, responding, reacting to various social issues.

## **SEMESTER – I**

### **GEOG CC-101 Geomorphology**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

- CO1:** Understand the internal structure of the earth and functioning of the Earth systems in real time.

**CO2:** Analyze the factors affecting the development of landforms.

**CO3:** Distinguish between the mechanisms that control geomorphic processes.

**CO4:** Apply the knowledge about the roles of structure, stage and time in shaping the landforms in geographical research.

## **SEMESTER – I**

### **GEOG CC102: Cartographic Techniques (Practical) Course**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Know about scope of cartography and explain science and art of cartography.

**CO2:** Prepare various types of scales map projections and explain their use.

**CO3:** Understand and perform interpretation of topographical maps with the help of cross profiles.

**CO4:** Apply the practical knowledge in research work in various social science fields.

## **SEMESTER – I**

### **GEOG GE 101: Disaster Management**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the basic concepts of disaster management.

**CO2:** Examine the different types of disasters in India.

**CO3:** Evaluate the role of institutional frameworks to mitigate the disasters in the country.

**CO4:** Apply the knowledge as personals in disaster management department.

## **SEMESTER – II**

### **GEOG CC203 : Human Geography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the scope of human geography in the contemporary world.

**CO2:** Enhance in-depth knowledge of space and society of cultural regions.

**CO3:** Understand the relationship between space and human resource.

**CO4:** Compare and contrast the population residing in different parts of the World.

## **SEMESTER – II**

### **GEOG CC204 : Thematic Cartography (Practical)**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Explain concepts and technicality of cartography

**CO2:** Construct diagrams to show statistical data and analyze the benefits and limitations of Diagrammatic Data Presentation.

**CO3:** Understand the concept of thematic maps and perform construction and interpretation of thematic maps.

**CO4:** Prepare thematic maps and interpret them.

## **SEMESTER – II**

### **GEOG GE 202 : Regional Planning and Development**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the concept of Region and Regional Planning.

**CO2:** Comprehend Theories and Models for Regional Planning.

**CO3:** Develop concept of Development, Sustainable Development and different programmes and policies.

**CO4:** Apply the knowledge in delineating planning area as administrator.

## **EVS AECC 202 : Environmental Science**

### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand multidisciplinary nature of environmental studies.

**CO2:** Understand the concept and types of natural resources and environmental pollution.

**CO3:** Evaluate the anomalies created due to haphazard population growth and its impact on environment.

**CO4:** Understand about the organizations, conventions and legislations working on mitigation of environmental issues.

## **SEMESTER – III**

### **GEOG CC 305: Climatology**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Learn about the structure and composition of atmosphere.

**CO2:** Get in-depth knowledge of global atmospheric phenomena.

**CO3:** Analyze various forms of atmospheric moisture.

**CO4:** Understand the basic concept of frontogenesis and Dynamics of Cyclone.

## **SEMESTER – III**

### **GEOG CC306 : Statistical Methods in Geography (Practical)**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Know the concept of various data/variables.

**CO2:** Apply the knowledge in their research work and analysis.

**CO3:** Understand various types of maps

**CO4:** Interpret the data in research projects and would help to get the Position of analytics

### **SEMESTER – III**

**GEOG CC307 : Geography of India**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the physical attributes of Indian Geography.

**CO2:** Enhance their knowledge at par the economic and power resources of India.

**CO3:** Analyze the demographic attributes of India.

**CO4:** Learn in-depth, the specific regional divisions.

### **SEMESTER – III**

**GEOG GE303 : Climate Change: Vulnerability and Adaptation**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand fundamentals of climate change.

**CO2:** Analyse of vulnerability and its impact.

**CO3:** Know the impact of climate change on flora, fauna, and human health.

**CO4:** Understand the concept of mitigation and planning

### **SEMESTER – IV**

## **GEOG CC408 : Economic Geography**

### **Course Outcomes:**

**After completion of this course, the student will be able to:**

- CO1:** Understand the concept and factors responsible for spatial distribution of economic activities in the world.
- CO2:** Learn various dimensions of primary and secondary activities.
- CO3:** Be able to explain the relevance of Transportation and SEZ in India economy.
- CO4:** Apply the knowledge in the context of current economic problems of the World.

## **SEMESTER – IV**

## **GEOG CC409 : Environmental Geography**

### **Course Outcomes:**

**After completion of this course, the student will be able to:**

- CO1:** Know the concept and components of Environmental Geography, ecosystem and ecology.
- CO2:** Understand human-environment relationships.
- CO3:** Analyse environmental problems, their causes and impact.
- CO4:** Learn Environmental Programmes and Policies at global and national levels.

## **GEOG CC410 : Remote Sensing and GIS (Practical)**

### **Course Outcomes:**

**After completion of this course, the student will be able to:**

- CO1:** Learn basic concept, components and types of remote sensing and GIS
- CO2:** Comprehend about aerial photography, satellite remote sensing EMR and sensors.

**CO3:** Understand application of remote sensing and GIS in various fields.

**CO4:** Identify the earth surface features from satellite images and prepare thematic maps.

#### **SEMESTER – IV**

##### **GEOG SEC 402 : Geographical Information System (Practical)**

##### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Learn basic concepts of GIS and GPS.

**CO2:** Understand the data structure and process spatial and attribute data and prepare thematic maps.

**CO3:** Comprehend GIS data analysis methods.

**CO4:** Use GIS for urban and land use land cover study.

#### **SEMESTER – IV**

##### **GEOG GE404 : Geography of India**

##### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the physical attributes of India

**CO2:** Get detail knowledge about economic and power resources of India.

**CO3:** Analyze the demographic attributes of India.

**CO4:** Learn in-depth, the specific regional divisions.

#### **SEMESTER – V**

##### **GEOG CC511 : Regional Planning and Development**

##### **Course Outcomes:**



**After completion of this course, the student will be able to:**

**CO1:** Understand the concept of Region and Regional Planning.

**CO2:** Familiarize the student with Theories and Models for Regional Planning.

**CO3:** Develop understanding about concept of Development, Sustainable Development and different programmes and policies.

**CO4:** Apply the planning and development processes in useful geographical studies

### **SEMESTER – V**

#### **GEOG CC512 : Research Methodology & Field Study Tour**

##### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand various dimensions of field work and its role in geographical studies.

**CO2:** Comprehend different field study techniques.

**CO3:** Apply the knowledge in report writing

**CO4:** Identify different field tools.

#### **GEOG DSE501 : Population Geography**

##### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand Population Geography along with relevance of demographic data.

**CO2:** Learn about distribution of data and trends of population growth in developed and less developed countries, along with population theories.

**CO3:** Identify the variations of population composition of different parts of the World.

**CO4:** Interpret the contemporary issues in the field of population.

### **GEOG DSE501 : Resource Geography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the meaning of resources, and the concepts of resource geography

**CO2:** Evaluate the problems and management of land and water resources

**CO3:** Apply the knowledge in sustainable resource development

**CO4:** Apply the conservation and protection methods for natural resources, energy means and agricultural produce.

### **GEOG DSE 502 : Urban Geography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the fundamentals and patterns of urbanization process in the world.

**CO2:** Comprehend the patterns and functional attributes of urban places.

**CO3:** Analyze the contemporary urban issues and its solution for sustainable development

**CO4:** Learn about contemporary urban issues Delhi, Patna, and Ranchi.

### **GEOG DSE 502 : Agricultural Geography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the meaning, concept and scope of land use and agricultural geography

**CO2:** Understand and remember the models and classifications of land use of India and some other countries

**CO3:** Evaluate the agricultural systems and patterns of the world with special reference to India

**CO4:** Evaluate the modern agricultural technology, agricultural policies, and emerging problems

## **SEMESTER – VI**

### **GEOG CC613 : Evolution of Geographical Thought**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the historical evolution of geographical thought and its interdisciplinary approach.

**CO2:** Learn different paradigms in geographical studies.

**CO3:** Evaluate the nature of dualism in geography.

**CO4:** Comprehend the relevance of contemporary trends in geographical studies.

## **SEMESTER – VI**

### **GEOG CC614 : Disaster Management based Project Work (Practical)**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand the basic concepts of disaster management.

**CO2:** Analyse about the different types of disasters in India.

**CO3:** Understand the various dimensions of disaster management through field works.

**CO4:** Apply the knowledge in real life situations

## **SEMESTER – VI**

### **GEOG DSE603 : Social Geography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Comprehend different Social Categories and their Distribution

**CO2:** Develop knowledge on Migration and its consequences.

**CO3:** Evaluate the social issues such Poverty, Slums, Dowry, and child labour.

**CO4:** Understand components and concepts of social well-being and quality of life.

## **SEMESTER – VI**

### **GEOG DSE603 : Hydrology and Oceanography**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Have a basic idea about hydrology cycle

**CO2:** Understand the problem and the characteristics of river basin

**CO3:** Evaluate the geography of ocean and its features

**CO4:** Understand the concept and distribution of marine resources

## **SEMESTER – VI**

### **GEOG DSE604 : Geography of Health and Wellbeing**

#### **Course Outcomes:**

**After completion of this course, the student will be able to:**

**CO1:** Understand concepts of Health Geography and Environment.

**CO2:** Identify health risks and exposure.

**CO3:** Comprehend the impact of climate Change and human health.

**CO4:** Apply knowledge of Geography of Social Well-being and Social Diversity in modern society.

## **SEMESTER – I**

### **ENG AEC101 : English Communication**

#### **Course Outcomes:**

**On completion of the course, the students will be able to:**

**CO1:** Communicate effectively using the techniques in the area of spoken as well as written communication.

**CO2:** Hone their LSRW skills within their communication.

**CO3:** Design and answer job interview questions

**CO4:** Demonstrate the ability to craft professional messages that are clear yet courteous.

## **SEMESTER – I**

### **Course Outcomes:**

#### **HINAECC101– हिंदी-व्याकरण और सम्प्रेषण**

परिणाम - 1. विभिन्न प्रतियोगी परीक्षाओं के लिए तैयार करना |

२. सम्प्रेषण-क्षमता की वृद्धि करना |

३. कार्यालयी-पत्र लेखन की क्षमता विकसित करना |

४. हिंदी के व्याकरणिक एवं सैद्धांतिक स्वरूप की जानकारी हासिल करना ||

## **SEMESTER-II**

### **EVS AEC 202 : Environmental Science**

#### **Course Outcomes:**

**After completion of the course, the students will be able to:**

**CO1:** Understand multidisciplinary nature of environmental studies.

**CO2:** Understand the concept and types of natural resources and environmental pollution.

**CO3:** Evaluate the anomalies created due to haphazard population growth and its impact on environment.

**CO4:** Understand about the organizations, conventions and legislations working on mitigation of environmental issues.

### **SEMESTER – III**

#### **IRS SEC301 : Inter-Religious Studies**

##### **Course Outcomes:**

**After completion of the course, the students will be able to:**

**CO1:** Develop Inter-religious harmony & better understanding of other religions.

**CO2:** Interpret the different religions of the world.

**CO3:** Identify the common elements that bind different religions together.

**CO4:** Acquaint with the salient features of different religions.