



**Name of the Programme: B.A/B.Sc. in Geography (FYUGP)**

**Programme Outcomes (PO)**

**After completing the Four-Year Undergraduate Programme in Geography, Students are expected to achieve the following Programme Outcomes:**

**PO1:** Students will be able to have a comprehensive understanding of the discipline of geography.

**PO2:** Students will be able to develop critical thinking and analytical skills using geospatial data and phenomena using a range of tools and technologies

**PO3:** Students will be able to cultivate an interdisciplinary and holistic approach to understanding and addressing complex issues that affect the environment, society, and economy.

**PO4:** Students will gain hands-on experience in using geospatial technologies, conducting fieldwork, collecting and analyzing data, and communicating their findings to diverse audiences.

**PO5:** Students will be equipped with a range of transferrable skills, including communication, teamwork, leadership, and problem-solving, that will enable them to adapt to changing professional and societal contexts.

**PO6:** Students will be able to articulate the relevance and significance of geography to contemporary environmental and social issues.

**PO7:** Students will have an understanding of the principles of cartography, geodesy, and spatial statistics, and be able to apply these principles to real-world problems.

**PO8:** Students will have experience in using qualitative and quantitative methods to collect and analyze data, and be able to communicate their findings effectively to diverse audiences

**PO9:** Students will be able to integrate this knowledge to develop holistic and nuanced understandings of complex issues, and develop innovative and sustainable solutions.

**PO10:** Students will be able to work collaboratively and responsibly with colleagues and stakeholders, and commit to lifelong learning and continuous professional development.

### **Programme Specific Outcomes (PSO)**

The programme-specific outcomes of the Undergraduate Programme in Geography are listed below. After completing the programme the students will be able to:

**PSO1:** Students will be able to demonstrate a comprehensive understanding of the principles, concepts, and theories of geography, including its sub-disciplines such as physical geography, human geography, and geomatics.

**PSO2:** Students will be able to apply critical thinking and problem-solving skills to analyze and interpret geospatial data and phenomena, and develop innovative and sustainable solutions to environmental and social issues.

**PSO3:** Students will be able to utilize a range of geospatial technologies, including geographic information systems (GIS), remote sensing, and spatial statistics, to collect, manage, and analyze geospatial data.

**PSO4:** Students will be able to conduct fieldwork and research projects, utilizing both qualitative and quantitative methods, to collect and analyze data on environmental and social phenomena.

**PSO5:** Students will be able to communicate effectively in written, oral, and visual forms, to diverse audiences, including academic and non-academic audiences, using appropriate technologies and media.

**PSO6:** Students will be able to work effectively in diverse teams, demonstrating leadership, communication, and collaboration skills, to solve complex environmental and social problems.

**PSO7:** Students will be able to develop an interdisciplinary and holistic perspective on environmental and social issues, drawing on knowledge and

methods from diverse fields such as ecology, economics, sociology, and political science.

**PSO8:** Students will be able to demonstrate global and cultural competence, with an understanding of the diverse cultural, social, and economic contexts in which environmental and social issues occur.

**PSO9:** Students will be able to apply ethical and professional standards, demonstrating a commitment to responsible and sustainable environmental and social practices.

**PSO10:** Students will be able to engage in lifelong learning and professional development, staying abreast of current trends and advances in the field of geography, and contributing to the advancement of the discipline through research and practice.

### Course Outcomes (CO)

#### B.A. 1<sup>st</sup> Semester

#### Course Title: GEOMORPHOLOGY

Course Code: GGRC1

Nature of Course: MAJOR

Total Credits: 4

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

**CO1:** Understand the branch of Geomorphology and its fundamental concepts.

**CO2:** Acquire knowledge about the interior of the earth and its interior movements.

**CO3:** Have an understanding of diverse geomorphic processes acting on the earth and their role on the development of different landform under different geo-climatic conditions.

**CO4:** Comprehend the various processes responsible for the development of diverse landforms on the earth's surface.

**Course Title: GEOMORPHOLOGY AND OCEANOGRAPHY**

Course Code: MINGGR1

Nature of Course: MINOR

Total Credits: 4

*At the end of this course, student will be able to:*

**CO1.** Understand the fundamental principles, theories, and applications of the two fields.

**CO2.** Gain knowledge and skills necessary to understand the interactions between the Earth's surface processes and the ocean, and the dynamic nature of coastal and marine environments.

**CO3.** Acquire knowledge about the interior of the earth and its interior movements and develop practical skills in fieldwork, laboratory analysis, and data interpretation in both geomorphology and oceanography.

**CO4.** Understand diverse geomorphic processes acting on the earth and their role on the development of different landform under different geo-climatic conditions and comprehend the various processes responsible for the development of diverse landforms on the earth's surface.

**Course Title: PHYSICAL GEOGRAPHY**

Course Code: GECGGR1A

Nature of Course: GENERIC ELECTIVE COURSE (GEC)

Total Credits: 3

*At the end of this course, student will be able to:*

**CO1.** Explain the concept, definition and scope of earth systems.

**CO2.** Understand the atmospheric composition and structure.

**CO3.** Acquire knowledge about the interior of the earth and its interior movements.

**Course Title: HUMAN GEOGRAPHY**

Course Code: GECGGR1B

Nature of Course: GENERIC ELECTIVE COURSE (GEC)

Total Credits: 3

*At the end of this course, students will be able to:***CO1.** Understand various dimensions of Human Geography and its relevance.**CO2.** Analyze population growth and distribution and understand theories of population.**CO3.** Understand the relationship between space and society.**Course Title: PRACTICALS ON MORPHOMETRIC TECHNIQUES AND SURVEYING**

Course Code: SEC106

Nature of Course: SKILL ENHANCEMENT COURSE (SEC)

Total Credits: 3

*At the end of this course, students will be able to:***CO1.** Understand the various morphometric techniques used in drainage analysis.**CO2.** Learn about the various slope analysis techniques and uses of different types of scales.**CO3.** Learn about different methods of surveying.**B.A. 2<sup>nd</sup> Semester****Course Title: CLIMATOLOGY**

Course Code: GGRC2

Nature of Course: MAJOR (Core)

Total Credits: 4

*At the end of this course, students will be able to:***CO1.** Have scientific understanding of the physical aspects of Earth's climate system and the factors that influence climate change.**CO2.** Explore the global balance of energy and transfer of radiation in the atmosphere through in-depth quantitative analysis and the general circulation of winds.

**CO3.** Highlight important atmospheric phenomena and their direct bearing on man. Its emphasis is on understanding the weather phenomena and their impact on day to day life.

**Course Title:** CLIMATOLOGY AND BIOGEOGRAPHY

Course Code: MINGGR2

Nature of Course: MINOR

Total Credits: 4

*At the end of this course, students will be able to:*

**CO1.** Have scientific understanding of the physical aspects of Earth's climate system and the factors that influence climate change.

**CO2.** Explore the global balance of energy and transfer of radiation in the atmosphere through in-depth quantitative analysis and the general circulation of winds.

**CO3.** Highlight important atmospheric phenomena and their direct bearing on man. Its emphasis is on understanding the weather phenomena and their impact on day-to-day life.

**Course Title:** GEOMORPHOLOGY

Course Code: GECGGR2A

Nature of Course: GENERIC ELECTIVE COURSE (GEC)

Total Credits: 3

*At the end of this course, student will be able to:*

**CO1.** Get introduced the meaning, nature, scope and concepts in Geomorphology in adequate manner, many facets of surface relief features.

**CO2.** Understand various aspects of their growth and evolution on the Earth.

**CO3.** Understand the work of running water, Underground water, moving ice, wind and sea waves, Weathering, and Mass Wasting–Concepts, etc.

**Course Title: FUNDAMENTALS OF ECONOMIC GEOGRAPHY**

Course Code: GECGGR2B

Nature of Course: GENERIC ELECTIVE COURSE (GEC)

Total Credits: 3

*At the end of this course, students will be able to:*

**CO1.** Acquire an understanding of the fundamental concepts of Economic Geography.

**CO2.** Understand the dynamics of economic activities, man's resource use, and population pressure on resource base.

**CO3.** Understand the rationale for the location of industries and agricultural activities in its geographical perspectives and human land use through locational theories.

**Course Title: ENVIRONMENTAL SCIENCE**

Course Code: VAC3

Nature of Course: VALUE ADDED COURSES

Total Credits: 2

*At the end of this course, students will be able to:*

**CO1.** Understand the various environmental challenges faced by the world.

**CO2.** Create a sense of how to be more responsible towards the environment.

**CO3.** Gain fundamental knowledge of environmental science and its importance in present day context.

**CO4.** Develop strategies for the development of environmental degradation.

**Course Title: MAP PROJECTION AND CARTOGRAPHIC TECHNIQUES**

Course Code: SEC206

Nature of Course: SKILL ENHANCEMENT COURSES

Total Credits: 3

*At the end of this course, students will be able to:*

**CO1.** Understand about different map projections techniques and their Utility.

**CO2.** Develop skills on preparing conical and cylindrical projection.

**CO3.** Enhance their understanding on different projection techniques.

**CO4.** Develop skill to develop the graphs such as climograph, ergograph etc.

**B.A. 3<sup>rd</sup> Semester****Course Title: ENVIRONMENTAL GEOGRAPHY**

Course Code: GGRC3

Nature of Course: MAJOR

Total Credits: 4

*At the end of this course, students will be able to:***CO1.** Understand the concept & scope of environmental geography**CO2.** Examine man-environment relationships in different locations.**CO3.** Understand the basic concepts, structure, and functioning of the ecosystem**CO4.** Gain knowledge of environmental problems in different climatic regions**CO5.** Enhance their understanding on local to global environmental programs and policies.**Course Title: SOCIAL GEOGRAPHY OF INDIA**

Course Code: GGRC4

Nature of Course: MAJOR

Total Credits: 4

*At the end of this course, students will be able to:***CO1.** Define social geography, its nature, scope, and development.**CO2.** Evaluate castes and tribes of India and their distributions.**CO3.** Identify social status and issues due to religion in India.**CO4.** Illustrate language as identity and its relevance.



**Course Title: HUMAN, SOCIAL AND CULTURAL GEOGRAPHY**

Course Code: MINGGR3

Nature of Course: MINOR

Total Credits: 4

*At the end of this course, students will be able to:*

- CO1.** Understand the human, social and cultural aspect in geography.
- CO2.** Evaluate the potential social and cultural problems and prospects.
- CO3.** Aware of social and cultural conservation plan of India.
- CO4.** Develop technical skill of spatial data interpretation in practical.

**Course Title: CLIMATOLOGY**

Course Code: GECGGR3

Nature of Course: (A) GENERIC ELECTIVE COURSE (GEC) (NATURAL SCIENCES)

Total Credits: 3

*At the end of this course, students will be able to:*

- CO1.** Understand the basic concept of climatology and its components.
- CO2.** Know the climatic phenomena in global and local contexts.
- CO3.** Know the basics of atmospheric moisture, the hydrological cycle, and climate change.

**Course Title: SETTLEMENT GEOGRAPHY**

Course Code: GECGGR3

Nature of Course: (B) GENERIC ELECTIVE COURSE (GEC) (SOCIAL SCIENCES/ HUMANITIES/ COMMERCE)

Total Credits: 3

*At the end of this course, students will be able to:*

- CO1.** Understand the basic concept of settlement geography and its components.
- CO2.** Learn the criteria of rural and urban settlement and their growth.
- CO3.** Evaluate the theoretical concept of settlement on other geographic variables.

**Course Title:** APPLICATION OF REMOTE SENSING AND GIS IN GEOGRAPHY

Course Code: SEC306

Nature of Course: SKILL ENHANCEMENT COURSE

Total Credits: 3

*At the end of this course, students will be able to:***CO1.** Gain practical knowledge of the use of artificial intelligence and machine learning in Geography.**CO2.** Learn remote sensing and GIS would open up the technical ability for further research.**CO3.** Relate geography to real-world problems and capacity building for its investigation and management through artificial intelligence.

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