**B.A. Geography 2021-2025**

Semester I - Physical Geography : Lithosphere

Course Objective-

* Students will understand the concept of place and how it is connected to people's sense of belonging to the physical environment, landscape and culture.
* Students will understand the fundamental concepts of spatial interaction and diffusion, which explain how human activities are influenced by the concept of distance.
* Students will be exposed to the nature of physical systems such as geomorphologic processes and natural hazards.
* Students will be able to read and interpret information on different types of physical features maps.

Learning Outcome-

* After this lesson the students will have a knowledge of physical geography in relation to its nature and scope, the concepts of origin and evolution of topography.
* Understand the theories and fundamental concepts of Geotectonic and Geomorphology. Understand earth’s tectonic and structural evolution. Gain knowledge about earth’s interior. Develop an idea about concept of plate tectonics, and resultant landforms.
* Students will have an overview of structure and composition of interior of earth and development of earth crust and origin and methods of development of major land forms
* Will have basic concepts about relief features of plateaus, hills, foothills, valleys, plains and flood plains.

Semester I – Cartography and surveying- I

Course Objective-

* To provide the knowledge on the basic issues of cartography and the cartographic process (mapping techniques).
* Understanding of the cartographic surveying
* To offer the knowledge on spatial referencing.
* To provide the knowledge on map analysis and interpretation.
* Learn the usages of survey instruments.

Learning Outcome-

* Read and prepare map
* Comprehend locational and special aspect of the earth surface.
* Use and importance of maps for regional development and decision making.
* Recognize basic themes of map making

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Semester - II Element of Human Geography

Course Objective-

* Students will develop a solid understanding of the concepts of “space," “place” and “region” and their importance in explaining world affairs.
* Students will understand general demographic principles and their patterns at regional and global scales.
* Students will be able to locate on a map major physical features, cultural regions, and individual states and urban centers.
* Students will understand global and regional patterns of cultural, political and economic institutions, and their effects on the preservation, use and exploitation of natural resources and landscapes.

Learning Outcome-

* Gain knowledge about major themes of human Geography.
* Acquire knowledge on the history and evolution of humans.
* Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations.
* Students will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment.

Semester II – Cartography -II

Course Objective-

* Understand that data sets can be represented in more than one way,
* Read line plots, tally charts, and bar graphs and represent the same data in a different format,
* Compare and express opinions on different methods of representing data.
* Be able to produce well conceived maps

Learning Outcome-

* Understand and prepare different kinds of maps.
* Comprehend the concept of scales and representation of data through cartograms.
* Develop an idea about different types of thematic mapping techniques.
* Preparation of suitable thematic maps according to the given data

Semester III – Physical Geography : Atmosphere and Hydrosphere

Course Objective-

* The broad objective of the course is to introduce to the students the fundamentals of atmospheric phenomena, global climate systems and climate change.
* The atmosphere and climate are a critical part of the earth system, and climatic variability and change are central to the issue of current and future global environmental change.
* To understand the dynamics of the atmosphere, the ocean and the overall climatologically system.
* Hydrology includes the study of occurrence of water, its properties, its distribution and circulation, its effects on the living beings and their surroundings.

Learning Outcome-

* Understand the elements of weather and climate, different atmospheric phenomena.
* To analyze the dynamics of the Earth’s atmosphere and global climate.
* Understand the mean global atmospheric circulations and disturbances, world climate systems, climatic variability and change.
* Analyze the concepts of Hydrology and evaluate the role of the global hydrological cycle. Studying the behavior and characteristics of the global oceans.

Semester III- Application of Statistical Techniques in Geography and Surveying

Course Objective-

* Understand the definition of the mean, median, mode, standard deviation and calculation with different examples.
* General understanding of preparation of different types of maps.
* Understanding of map types, map scale and map content.
* Study of prismatic compass includes significance, structure and survey.

Learning Outcome-

* Learn the significance of statistics in geography.
* Learn significance of mapping techniques and survey.

Semester IV - Economic Geography

Course Objective-

* Introduce the students to the geographical mode of thinking in application to various economic phenomena;
* Acquaint the students with the logic of capitalist economic development and its spatial and historical drivers, as well as conventional measures thereof;
* Survey alternative (heterodox) theories of economic development;
* Familiarize the students with the principal concepts of economic policymaking and provide a basic conceptual toolkit for their future studies and research in the broader economic domain.

Course Objective-

* Understand the concept of economic activity, factors affecting location of economic activity. Gain knowledge about different types of Economic activities
* Assess the significance of Economic Geography, the concept of economic man and theories of choice.
* Analyze the factors of location of agriculture and industries.
* Understand the evolution of varied types of economic activities.
* Map and interpret data on production, economic indices, transport network and flows.

Semester IV – Topographic sheet, Weather Map & Report

Course Objective-

* Identify weather terms related to weather maps
* Apply the weather terms to describe the weather on a map
* Recognize the importance of accurate weather data.
* Interpret TV or newspaper weather maps.
* Explain reasons for atmospheric motions.
* Distinguish various severe weather phenomena & appropriate advisories, watches & warnings.

Course Objective-

* Interpret geological and weather maps.
* Learn the usages of survey instruments.
* Learn to use of various meteorological instruments.
* Ablity to record temperature, pressure, humidity and rainfall
* Proficiency in handling the weather instruments and making weather forecasts

Semester V- Geography of India

Course Objective-

* In depth knowledge of climate, natural vegetation, agriculture and energy resources and industries of India.
* Students will be exposed to historical, economic, cultural, social and physical characteristics of India.
* Students will be introduced to demographic, age sex composition, social and cultural attributes such as migration.

 Learning Outcome-

* Learn the difference in terms of varied physiography of India.
* Understand the various demographic components.
* Study the economy and various types of resources in India.

Semester V- Map Projection and Surveying

Course Objective-

* Gain in depth knowledge on map projection: conical, cylindrical, Bonne’s polyconic, Gall’s mercators.
* Learn about correlation and regression.
* Understand plane table survey.

 Learning Outcome-

* Ability to understand and read maps and develop skills by which they will able to create maps on their own.
* Recognize basic themes of map making.

Semester VI- Resource and Environment

Course Objective-

* Understand the concept of nature and component of environment, resource utilization, population pressure and sustainable development.
* Learn concept like man environment relationship, green revolution, urbanization, food security etc.

Learning Outcome-

* Acquiring basic information about potentials and management of resources like land, water, forest in global context.
* Analyze the contemporary crisis and assess the future scenario.
* Understand the concept of Limits to Growth, resource sharing and sustainable use of resources.

Semester VI- Map Projection and Surveying

Course Objective-

* Gain knowledge of Remote Sensing, Aerial photography, GIS and GPS system.
* Understand the concept of Zenithal map projection.
* Learn about Geographical Excursion and report writing.

Learning Outcome-

* Student can efficiently assess the scientific principles of Remote Sensing techniques, GIS, GPS and observe and apply satellite based data.
* Application of aerial photo techniques in Geography Development.
* Learn significance of mapping techniques.