

# GOUR MAHAVIDYALAYA

## DEPARTMENT OF GEOGRAPHY

Program name: I+I+I

### PROGRAMME OUTCOMES

**PO01:** Acquire knowledge of geomorphological and geotectonic processes and their formation to understand various landforms, their origin, and the processes through which landforms have gone or are going.

**PO02:** Gain proficiency in surveying and levelling fields using a prismatic compass, dumpy level, and theodolite, along with map projection skills to become adept cartographers.

**PO03:** Explore different types of thematic mapping with statistical techniques to enhance students' higher learning and research abilities.

**PO04:** Provide a brief overview of ancient and contemporary geographical thought and its impact on the evolution of modern geography.

**PO05:** Create a map using Quantum GIS and modern geographical map-making techniques.

### COURSE OUTCOMES

#### Part – I

##### **Module 1: Geotectonic**

- Understand the effect of origin of earth, earth's rotation and movements.
- Acquire knowledge of internal structure of the earth.
- Understand the evidence and mechanism of internal earth.
- Understand the forces acting on lithospheric action and its resultant topography.
- To know about surface expression.

##### **Module 2: Oceanography**

Understand about the ocean floor, ocean currents and its causes, significance and Knowledge about effect of ocean Current.

- Study about types of marine deposits.
- Understand resource potential of Ocean.

##### **Module 3: Geomorphology**

- Understand the nature, scope and significance of geomorphology and fundamental concepts in subject.
- To examining the Origin and Evolution of the earth primary relief features by different theories in subject.
- Realize about Exogenous Processes considering weathering and mass wasting process.

- Acquire acquaintance about origin, processes and their topographic landforms. Like; wind, glacial, waves, underground water and river etc.
- Understand the Evaluate the fundamental Model of Davisian Cycle of Erosion, Penck's and Hack's equilibrium theory to learn the function of river and its landforms development process.
- To recognize and understand the drainage development and their landforms of uniclinal folded and faulted structure with special reference of India.

#### **Module 4: Hydrology**

To understand the modes of occurrence of water in the earth.

- Knowledge about evaporation, transpiration and infiltration process.
- Acquire knowledge of ground water storage and movement with related problems.
- Acquire knowledge about rain water harvesting.

#### **Module 5: Practical – 1**

- To learn drawing of Scale Diagram for representing geographical data.
- Skill of drawing of map, grapes, diagrams scale.
- Get skill of drawing choropleth, dot and sphere, pie-chart and proportional divided circle.
- Understand the mechanism function of topographical maps.

### **Part – II**

#### **Module 6: Economic Geography**

- Understand about the Scope and definition of Economic Geography with environmental aspects and conservation.
- Understand and apply the natural resource. Like; land, forest and environmental significance, power resources like; coal, petroleum and hydel power distribution and conservation processes.
- Compare the different activities of different power resources and its applicability.
- Understand the fundamental theories in subject.
- To understand the different types of transport and communication importance.

#### **Module 8: Climatology**

- Understand the structure, composition of Atmosphere and insolation, heat budget with vertical and horizontal temperature.
- Understand weather phenomena winds, humidity, precipitation (mechanism of precipitation with fundamental theories), and general circulation of the atmosphere.
- Understand the concept of temperature and factors, horizontal, vertical and inversion of temperature.

- Study of Indian monsoon and El Nino and La Nina and world koppen's classification.

### **Module 9: Soil Geography and Bio-Geography**

- To study the soil forming process.
- To understand Chemical and physical properties of soil and its influence on fertility.
- Understand the ecology, ecotone and community.
- Concepts of about carbon and nitrogen cycle.
- Acquire knowledge about biodiversity and degradation and conservation of wetlands.

### **Module 10: Practical- 2**

- To prepare the area measurement.
- Get skill of Drawing of projection.
- Acquaria knowledge of map making techniques.
- To understand to choose of projection according purpose of making maps.
- Understand and apply the different surveying like Prismatic Compass, Theodolite, Plane Table and contouring.

## **Part – III**

### **Module 11: Population Geography**

- Understand the history of population and basic sources of data
- Study of spatial distribution and density, concept of population and its trends, cause and consequences.
- Get knowledge of population theories Malthus, DTT and population resource region of Ackerman.
- Investigate Current Issues and Problems population growth in India.

### **Module 13: Geographical Thought**

- Students understand the scope and evolution of geography as a discipline contribution of eminent geographers.
- To learn about the man-environment relationship.
- Understand the conceptualizing location, space and time.
- Compare between the fundamental concepts in geography these are systematic Geography versus Regional Geography, Physical Geography versus Human Geography.
- To understand the concepts of paradigm shift in geography like; quantitative revolution, radical geography, humanistic and behavioural geography.

### **Module 14: Social and Cultural Geography**

- Understand the scope and content of social and cultural geography.
- Understand the concept of social process, social groups, social structure social well-being, social inequality and its present position.
- To understand the present status of social problems of Indian villages, gender inequality and women empowerment and about the tribes of India.
- Students understand about the concepts of culture, community, society, cultural groups, region, cultural realm, cultural hearth and cultural landscape.

### **Module 15: Political Geography**

- Students Understand about the scope and content of political geography.
- Get knowledge about Evolution of states, nations, frontier, boundary and territory.
- Students understand the geostrategic ideas of Ratzel, Makinder and Spykman.
- Get knowledge of Geopolitical importance of India and Indian Ocean.

### **Module 16: Geography of India**

- Students know to the major physiographic division and geomorphological characteristics of Indo-Gangetic plain.
- Understand about the Indian climatic zone, soil zones, vegetation zone and its depletion and conservation processes.
- Acquire knowledge about Indian agriculture and its modernization and its related problems.
- Understand the industrial region, changing concepts of location of industry with automobile and electronics industry.
- Get knowledge about the processes of globalization and liberalization and its impact of Indian economy.

### **Module 17: Practical- 3**

- Able to identify rocks and minerals
- Understand the methods of tabulation
- Able to measure the central tendency of any data

### **Module 18: Practical- 4**

- Get knowledge about statistics.
- Get knowledge about sampling.
- Able to measure the central tendency of any data.
- Able to learn how to collect data from field.
- Get some basic idea about geological sequence of rock beds.