GOUR MAHAVIDYALAYA

DEPARTMENT OF GEOGRAPHY

Program name: UG in Geography (Major)

(Under NEP-2020)

Implementing year: 2024-25

PROGRAMME OUTCOMES (POs)

PO-01: 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.

PO-02: Gain proficiency in surveying and levelling fields using a prismatic compass, dumpy level, and theodolite, along with map projection skills to become adept cartographers.

PO-03: Explore different types of thematic mapping with statistical techniques to enhance students' higher learning and research abilities.

PO-04: Provide a brief overview of ancient and contemporary geographical thought and its impact on the evolution of modern geography.

PO-05: Create a map using Quantum GIS and modern geographical map-making techniques.

PO-06: Conduct tests on soil samples and determine the nutritional status of the identified soil, aiding in future agricultural practices.

PO-07: Conduct tests on water samples to determine water quality, contributing to the assessment of drinking water quality and other types of water, and facilitating future research.

UG Geography (Major) Programme (NEP -2020)- 2024-25

COURSE OUTCOMES (COs)

Semester-I

GEO-DC-MJ-101A: GEOTECTONICS (THEORY)
• Learners will gain a comprehensive understanding of the fundamental principles and concepts of Geotectonic and they will understand the earth's tectonic and structural evolution. • Gain knowledge about earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms. • Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms. • Identification of rocks and minerals.
GEO-DC-MJ-101B: GEOTECTONICS (PRACTICAL)
• Students will gain a solid foundation in map comprehension and application, as well as skills in laboratory techniques for analysing and documenting rock and mineral samples. • They will also gain a comprehensive understanding of geological maps and profiles, their construction, and interpretation, which are required for successfully reading and using maps in a variety of academic and professional settings.

IAPC-01: Summer Internship/ Apprenticeship/Project/ Community Outreach (IAPC)- Project
• Through project construction, learners will acquire fundamental problem- solving skills. • Learners will be able to achieve their professional skills through project construction and delivery.

Semester-II

GEO-DC-MJ-201A: GEOMORPHOLOGY (THEORY)
• Learners will gain a comprehensive understanding of the fundamental principles and concepts of geomorphology. • Learners will be able to acquire a comprehensive understanding of the composition and dynamics of the earth's surface. • Learners will gain insight into the dynamic nature of the earth's crust and its significance in the formation of landforms and will be able to summarize and critically evaluate different models explaining how landforms develop. • Learners will be able to identify various types of landforms and establish their connections.
GEO-DC-MJ-201B: GEOMORPHOLOGY (PRACTICAL)
• Learners will develop a thorough understanding of topographical maps and their applications in geomorphology, which will help them prepare for future academic and professional endeavors in geography and related subjects. • Learners will be able to identify and analyse the survey of India topographical map and they will be able to interpret the features and their interrelationship which will help them in future research in practical fields. • Learners will be able to prepare the different types of morphometric maps in the applied geomorphology and they can interpret the structural features of any area.

IAPC-2: Summer Internship/ Apprenticeship/Project/ Community Outreach (IAPC)- Project
• Through project construction, learners will acquire fundamental problem- solving skills. • Learners will be able to achieve their professional skills through project construction and delivery.

Semester-III

GEO-DC-MJ-301A: CLIMATOLOGY (THEORY)
• Learners will gain the ideas of climate as the result of mass and energy accumulations over time, and they will also be able to identify atmospheric processes and mechanisms. • Learners will understand the types and regional patterns of climates. • Learners will identify the natural causes of climate change and distinguish how these causes differ from anthropogenic causes of climate change.
GEO-DC-MJ-301B: CLIMATOLOGY (PRACTICAL)
• Learners will gain the basic skills of handling manual weather instruments and the collection of weather information. • Learners will be able to construct climatic graphs for the representation of climatic data. • Learners will be able to analyse and interpret weather maps and will understand the spatial behaviour and relationships of weather phenomena.

GEO-DC-MJ-302A: HUMAN GEOGRAPHY (THEORY)
• Learners will acquire knowledge and develop an understanding of concepts, processes, elements, and methods of Human Geography. • Learners will also acquire knowledge on the history and evolution of humans. • It helps learners understand the relationship between man and environment in the light of development-environment conflict. • Overall, Students will receive a thorough understanding of human races, demographic dynamics, and development indices, providing them with critical knowledge for future courses in geography, anthropology, and social science.
GEO-DC-MJ-302B: HUMAN GEOGRAPHY (PRACTICAL)
• Learners will be able to identify the different human races by using different human body measurement index. • Learners will be able to identify and analyse the spatial dynamics of human population and able to apply the techniques of population potential, mean and median centres of population. • Learners will gain proficiency of the various indicators and measures of human development and able to calculate human development indices, and gender inequality index.

IAPC-03: Summer Internship/ Apprenticeship/Project/ Community Outreach (IAPC)- Project
• Through project construction, learners will acquire fundamental problem- solving skills. • Learners will be able to achieve their professional skills through project construction and

delivery.

Semester IV

GEO-DC-MJ-401A: GEOGRAPHY OF INDIA (THEORY)
• Learners will understand our country's geography, including the relationship between physiography and drainage, climate, and soil. • They will also learn about India's various physiographic, economic, and agricultural regions, as well as a solid understanding of the concept of region and its importance in planning and development. • Learners will understand different mineral and power resources and become aware of the resources and their conservation. • Learners will understand the various regionalisation scheme so the that they would better understand about the regional development of India.
GEO-DC-MJ-401B: GEOGRAPHY OF INDIA (PRACTICAL)
• The learners will be able to use of different types of maps in their livelihood as well as academic purposes. • Learners will be able to applied different types of map projection for map making in their academic purposes. • Learners will be able to represents the different physical and socio-cultural data using different cartograms and thematic mapping.

GEO-DC-MJ-402A: POPULATION GEOGRAPHY (THEORY)
• Learners will gain the concept of population geography and will be able to understand the distribution of population and its problems, population dynamics over space and time. • Learners could understand different population policies & its importance and the contemporary population issues, and mitigation strategies.
GEO-DC-MJ-402B: POPULATION GEOGRAPHY (PRACTICAL)
• Learners will be able to analyse the population data, determine the projected population and measure the densities of population. • Learners will be skilled in various measurements of vital statistics of the human population.

GEO-DC-MJ-403A: SOIL & BIOGEOGRAPHY (THEORY)
• Learners will gain a comprehensive understanding of the Pedogenesis. • Learners will be able to know how different Pedogenetic processes create different types of soils. • Learners will be able to know about land suitability. Besides, they will also acquire knowledge on the various modes of soil erosion and degradation • Learners will be able to know about the methodological knowledge about diagrammatic presentation of pedological data and they will be able to evaluate land quality quantitatively. • Learners will perceive the physical environment and organisms of the planet clearly. • Learners will acquire the ability to solve environmental problems related to the habitats of organisms
GEO-DC-MJ-403B: SOIL & BIOGEOGRAPHY (PRACTICAL)
• Learners will be able to know about the methodological knowledge about diagrammatic presentation of pedological data and they will be able to evaluate land quality quantitatively. • Learners will be able to measure the richness and evenness of biodiversity. • Learners will be able to calculate and determine the temporal loss of different species. • Learners will be able to measure the level of ecological footprint.