



Department of Geography

Gour Mahavidyalaya

P.O. - Mangalbari, Dist.: Malda. Pin: 732142 (W.B.)

Phone: 03512- 260547; Fax 03512-260547

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Action Taken Report on Cross-cutting Issues 2018-19 to 2022-23

Program name: Geography Honours (CBCS)

To Whom It May Concern

This is to certify that the mentioned texts of the syllabi of the Department of Geography, Gour Mahavidyalaya as prescribed by the University of Gour Banga tallies with the following core values:

Program Name	Program Code	Course Code	Name of the Course	Mention the Portion of Syllabus that Include
Ba/ Bsc (Honours) Geography	GEOH	DC5A	Climatology	Environment and Sustainability: Structure and composition of the atmosphere, Insolation and heat budget, Horizontal and vertical distribution of temperature, concept and types of inversion of temperature: its causes and consequences, Ozone layer and greenhouse effects
Ba/ Bsc (Honours) Geography	GEOH	DC7A	Geography of India	Environment and Sustainability: Climate, soil and vegetation: Characteristics and classification, Agricultural regions. Green revolution and its consequences; mineral and power resources distribution and utilisation of iron ore, coal, petroleum and gas
Ba/ Bsc (Honours) Geography	GEOH	DC7A	Geography of India	Human values: Contemporary population issues: Poverty, Illiteracy, Malnutrition and unemployment
Ba/ Bsc (Honours) Geography	GEOH	DC3A	Population and Settlement Geography	Human values: Definition, scope and contents of Population Geography, Source of population Data, Components of population change. Demographic Transition Theory, Population distribution and density of Population Policy
Ba/ Bsc (Honours) Geography	GEOH	DC 10A	Environmental Geography	Environment and Sustainability: Geographers' approach to environmental studies, concept of holistic environment and system approach, Perception of environment in different stages of civilization, Concept, structure and functions of ecosystem, Environmental pollution and degradation (Land, water and air), Space-time hierarchy of environmental problems (Local, regional and global), Urban environmental issues with special reference to waste management, Environmental



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				programmes and policies - Global, national and local levels
Ba/ Bsc (Honours) Geography	GEOH	DC 10B:	Environmental Geography practical	Environment and Sustainability: Preparation of check-list for Environmental Impact Assessment of an urban / industrial project, Determination of soil type by ternary diagram textural plotting, Quality assessment of water using lab kit: pH and TDS
Ba/ Bsc (Honours) Geography	GEOH	DC11A:	Soil & Biogeography	Environment and Sustainability: Definition and classification (Genetic & USDA) of soil, Factors of soil formation, Physical (structure and texture) and chemical soil properties (pH and NPK), Origin and profile characteristics of Lateritic, Podzol and Chernozem soils, Factors and processes of Soil erosion, degradation and mitigation measures, Definition of Biogeography, Concepts of biosphere, ecosystem, biome, ecotone, community, ecology, trophic structure, food chain and food web and biodiversity, Energy flow in ecosystems, Biogeochemical cycles with special reference to carbon dioxide and nitrogen, Geographical extent and characteristic features of Tropical rainforest and Taiga biomes; Causes, consequences of deforestation and management; Wetland: concept and significance
Ba/ Bsc (Honours) Geography	GEOH	DC11B	Soil & Bio Geography practical	Environment and Sustainability: Particle size distribution analysis by sieving method, Measurement of soil nutrient (NPK) and Soil pH by using soil kit, Time series analysis of biogeography data
Ba/ Bsc (Honours) Geography	GEOH	DC12A	Hydrology and Oceanography	Environment and Sustainability: Definition of hydrology; Concept, Characteristics, Significance and Interpretation of Hydrological Cycles, Definitions and Characteristics of Precipitation, Evaporation, Evapo-Transpiration, Infiltration, Rainfall Recharge Relationship and Runoff Characteristics, Flood Analysis of a drainage basin, Concept of Micro Watershed Planning, Water Management in Tropical Cities and Rainwater Harvesting, Temperature and Salinity characteristics of ocean water and marine resources



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Ba/ Bsc (Honours) Geography	GEOH	DC12B:	Hydrology and Oceanography practical	Environment and Sustainability: Annual Hydrograph analysis Rating curve,Runoff estimation: Float method, Preparation of temperature-salinity (TS)diagram
Ba/ Bsc (Honours) Geography	GEOH	DSE1A-	Remote Sensing and GIS	Environment and Sustainability: Concept, Principles, Stages, Types and Methods of RS, types of RS satellites and sensors, Sensor resolutions and their applications with reference to IRS and Landsat missions, image referencing schemes and data acquisition; Concept of False Colour Composites from IRS LISS-3 and Landsat TM and OLI data,Principles of image interpretation. Preparation of inventories of land use/land cover (LULC)features from satellite images,Concepts, Components, Developments, Functions and Advantages of GIS, raster and vector,Principles of preparing attribute tables, data manipulation and overlay analysis,Principles of GNSS positioning and waypoint collection
Ba/ Bsc (Honours) Geography	GEOH	DSE1B	Remote Sensing and GIS practical	Environment and Sustainability: Geo-referencing of scanned maps/ images and assigning projection,Digitization: Point, Line & Polygon,Preparation of thematic maps
Ba/ Bsc (Honours) Geography	GEOH	DSE1A	Political Geography	Human values: Concept of State, Nation and Nation State, Attributes of State – Frontiers, Boundaries,Enclave and exclave, Territory and Sovereignty and Emergence of new states,Geography of Voting, Geographic Influences on voting pattern and Gerrymandering
Ba/ Bsc (Honours) Geography	GEOH	DSE1B	Political Geography practical	Human values: Index of democracy and autocracy & Failed State Index,Happiness Index & Measuring voting behavior



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Ba/ Bsc (Honours) Geography	GEOH	DSE2A	Fluvial Geomorphology	Environment and Sustainability: Rivers as a hydro system; Models of channel initiation and network development, Flow measurement and characteristics assessment: Area velocity approach; laminar and turbulent flow, Morphometric aspects of a drainage basin: Stream ordering (Strahler and Shreve), bifurcation ratio, Sinuosity indices, Hypsometry (percentage hypsometry), Consequences of Human interventions on fluvial systems, Processes, management and impact on land use of River bank erosion and river degeneration, Principles and significance of Integrated watershed management
Ba/ Bsc (Honours) Geography	GEOH	DSE2B	Fluvial Geomorphology practical	Environment and Sustainability: Stream ordering, Bifurcation ratio, Stream sinuosity indices, Drainage density, Stream Frequency and Dissection Index based on Survey of India Toposheet
Ba/ Bsc (Honours) Geography	GEOH	DSE2A	Social and Cultural Geography	Human values: Social differentiation and stratification; social processes, Social Categories: Caste, Class, Religion, Race and Gender and their Spatial distribution, Basis of Social region formation, Evolution of social-cultural regions of India, Social groups, social behaviour and contemporary social issues (dowry, delinquency, child labour,
Ba/ Bsc (Honours) Geography	GEOH	DSE2A	Social and Cultural Geography	Gender: gender discrimination with special reference to India, Calculation of Human Poverty Index (HPI), Gender parity index
Ba/ Bsc (Honours) Geography	GEOH	SEC1:	Geography of Tourism	Environment and Sustainability: types of Tourism, Recreation and Leisure Inter-Relations Geographical Parameters of Tourism by Robinson, Factors (historical, natural, socio-cultural and economic) influencing tourism, Spatial pattern of tourism, Physical, economic and social impacts of tourism, Environmental laws and tourism: current trends, spatial patterns and recent changes, Recent Trends of Tourism: International and Regional; Domestic (India); Sustainable Tourism, Meeting Incentives Conventions and Exhibitions (MICE), Role of foreign capital and impact of globalisation on tourism, Tourism Infrastructure, regional dimensions of tourist attraction in India, National Tourism Policy;



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				Tourism Infrastructure, regional dimensions of tourist attraction in India, National Tourism Policy;
Ba/ Bsc (Honours) Geography	GEOH	DC13A	Disaster Management	Environment and Sustainability: Classification of hazards and disasters approaches to hazard study, Risk perception and vulnerability assessment, hazard paradigms, Responses to hazards: Preparedness, trauma, and aftermath. Resilience and capacity building., Factors, vulnerability, consequences, and management of hydrologic disasters (Flood & Drought), Factors, vulnerability, consequences, and management of Geologic disasters (Earthquake & Landslide), Factors, vulnerability, consequences and management of Atmospheric disasters (Cyclones)
Ba/ Bsc (Honours) Geography	GEOH	DC13B	Disaster Management practical	Environment and Sustainability: Flood Frequency Analysis (Time series), Flood year determination based on peak flow data in reference to danger and extreme danger level, Hydrological Drought Analysis: Standardised Precipitation Index (SPI)
Ba/ Bsc (Honours) Geography	GEOH	DSE3A	Applied Geomorphology	Environment and Sustainability: Human Impact in a Systems Approach; Some Characteristics of Physical Systems, direct and indirect impacts of human activities on Geomorphology (processes and forms), Geomorphic impacts of human society; Anthropogenic landforms, Stages of Intensifying Human Impact on the Landscape: natural, slightly modified, semi natural landscape, Formation of alien landscape over natural landscape and anthropogenic landscapes, Societal problems and benefits associated with rivers and modification of rivers; damming, water diversion for irrigation purposes, embankment effects and river linking, Geomorphic impacts on urbanisation, resource concentration, resource mining and cropping practices
Ba/ Bsc (Honours) Geography	GEOH	DSE3B	Applied Geomorphology practical	Environment and Sustainability: Hypsometric curve and long profile, Morphological mapping from toposheet



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Ba/ Bsc (Honours) Geography	GEOH	DSE3A	Human Geography	Human values: Space, society and cultural regions (language and religion), Evolution of human societies hunting and food gathering, pastoral nomadism, subsistence farming, industrial and urban societies, Human adaptation to the environment: Eskimo, Masai, Jarwa, Gaddi, Santhals, Population-Resource regions (Ackerman), Human population and environment with special reference to development-environment conflict
Ba/ Bsc (Honours) Geography	GEOH	DSE3B	Human Geography practical	Human values: Population Potential and Mean Centre of Population, Computation of Human Development Index (HDI)
Ba/ Bsc (Honours) Geography	GEOH	SEC2	Climate Change: Vulnerability and Adaptations	Environment and Sustainability: Understanding Climate Change with reference to the Geological Time Scale, Evidences and factors of climate change, Greenhouse Gases and Global Warming, Electromagnetic spectrum, Atmospheric window, heat balance of the earth, Economic and social impact of climate Change, impacts on Agriculture and Water; Flora and Fauna; Human Health and morbidity, Global initiatives to climate change mitigation: Kyoto Protocol, Carbon trading, Clean development mechanism, COP, Climate fund, Climate change vulnerability assessment and adaptive strategies with particular reference to South Asia, IPCC reports, National Action Plan (of India) on Climate Change

Following activities are done throughout the sessions in different semesters to fulfil the above cross-cutting issues incorporated in the syllabus for all-round development of the students, making them environment friendly, sensitive, moral and value added human.

1. **Theoretical and Practical classes on topics pertaining to Human values, Environment and Gender:**

Theoretical and practical classes are taken for developing environmental sustainability awareness, human values and gender sensitisation.



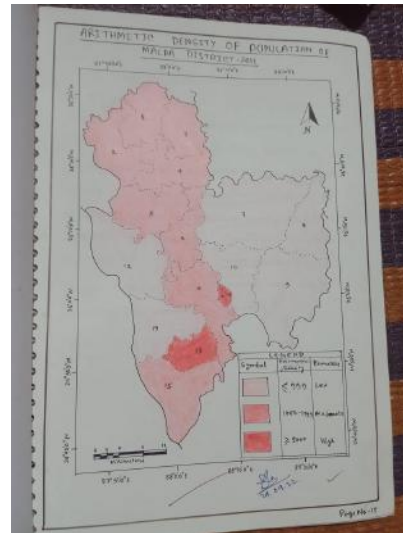
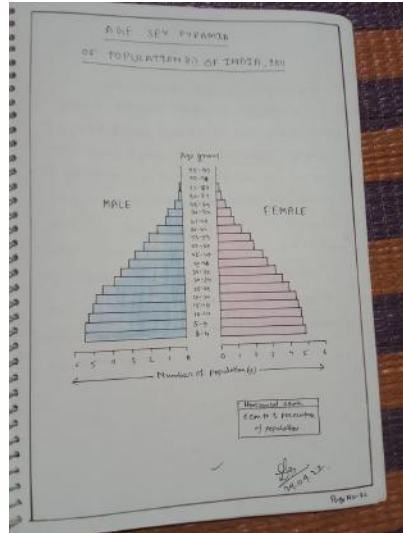
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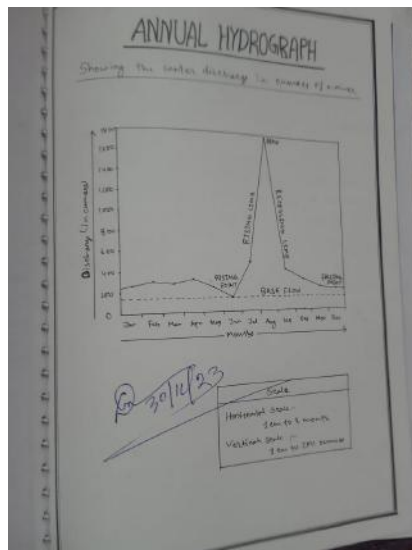
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Human Value Practical Classworks



ENVIRONMENTAL IMPACT ASSESSMENT CHECK-LIST				
Name of the Project:- Establishment of food processing industry				
Location:- Nalbari, Malda				
No.	Questions to be considered in assessing	Yes/No	Characteristics of impact	In the effect likely to be significant?
A. General characteristics of the project				
1.	Requirement on temporary change in land use, infrastructure, topography including increase in intensity of land use?	Yes	Due to the nature of various planning, drainage system, construction of buildings in the neighbourhood, the land use will be changed.	Highly Significant - Different plans are adopted for industrial activities. Land use will be changed.
2.	Clearance of existing land, vegetation and buildings?	Yes	Some vegetation will be cut and it will have effect.	Moderately Significant - not have vegetation will be damaged.
3.	Are there planning requirements for this project?	Yes	Planning is essential in assessing the framework for this building.	Highly Significant - no industry can be built without planning.



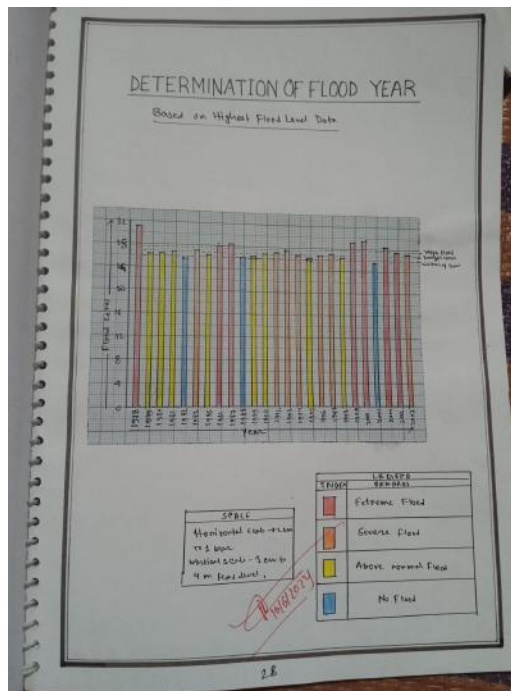
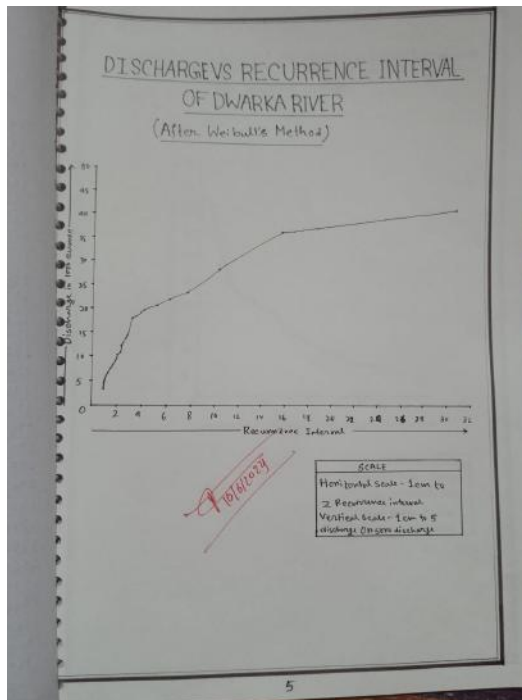
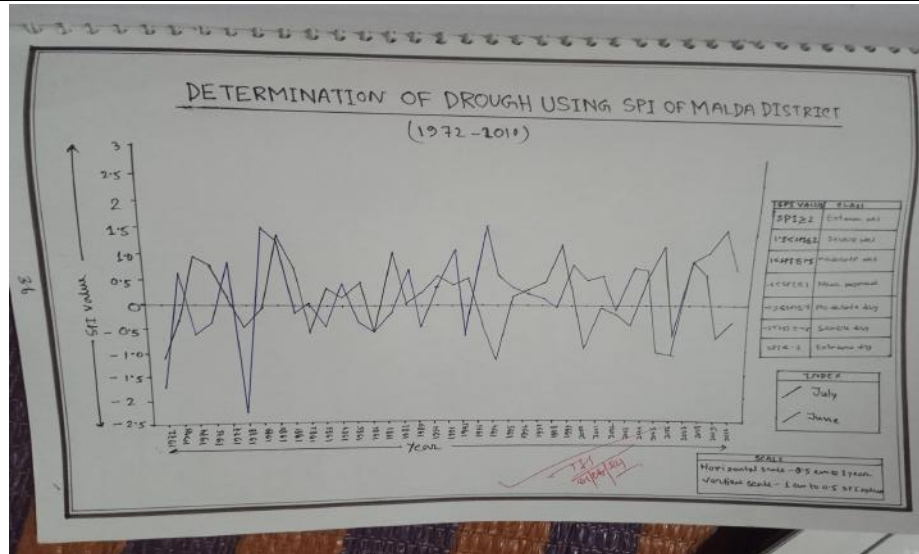
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Environmental Sustainability Practical Classwork



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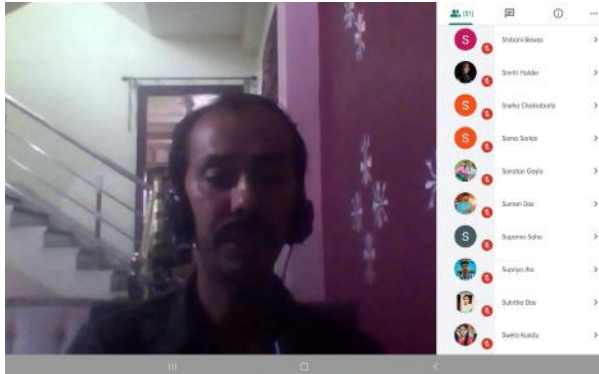
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2. Seminar and Conference for development of professional ethics:



Seminar Lecture by Dr Sanjay Saha, 2021



Seminar Lecture on Gender by Mrs Amrita Sarkar, 2019



Seminar Lecture by Mr Arup Roy, 2019



Seminar Lecture on Environment by Dr Somnath Halder, 2020



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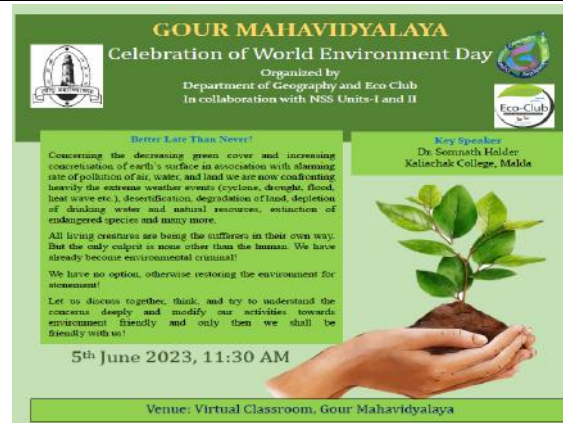
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Seminar Lecture by Dr Rakesh Sarkar on Math Skills, 2022



Seminar on Environment, 2023



Seminar Lecture on Low Carbon Lifestyle, 2019



3. Student Seminars/ Group Discussions for developing values on environment and culture:



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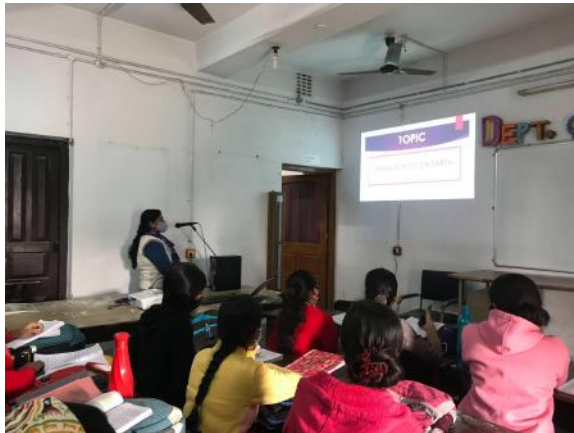
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Student Seminar, 2019

Student Seminar 2020



Student Seminar 2022

Student Seminar 2020

4. Field observation for first hand experience about the environment, society and culture:



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Field Survey and Project Preparation, 2023

5. Developing human values and social skills through co-curricular activities:



Students Taking class for professional development



Tree Plantation in Campus by Students, 2019



Distribution of saplings in Adopted villages, 2019