

# ASANNAGAR MMT COLLEGE

DEPARTMENT OF GEOGRAPHY,

LESSON PLAN (NEP 2020)

SEMESTER-I

Type: Minor

PAPER: I (Theory), SESSION- JULY-DECEMBER,2023

COURSE CODE: GEOG-MI-T-1

COURSE TITLE: PHYSICAL GEOGRAPHY

Credits-4

Unit	Topic	Teacher	Total Class
Unit-1	Internal structure of the earth	Baidyanath Sarkar	4
Unit-2	Continental drift theory: Mechanism, evidences and criticisms	Baidyanath Sarkar	4
Unit-3	Plate tectonics: Mechanism and resultant landforms	Baidyanath Sarkar	4
Unit-4	Geomorphic process: Weathering	Baidyanath Sarkar	4
Unit-5	Processes and landforms: Fluvial, Glacial, Aeolian and Coastal	Baidyanath Sarkar	4
Unit-6	Composition and structure of the atmosphere	Baidyanath Sarkar	4
Unit-7	Insolation, Heat budget, Horizontal and vertical distribution of temperature	Baidyanath Sarkar	4
Unit-8	Hydrological cycle	Baidyanath Sarkar	4
Unit-9	Definition of soil, concept of soil profile and soil forming factors; Types of soil: Zonal, Azonal and Intrazonal	Baidyanath Sarkar	4
Unit-10	Concept of ecology and ecosystem; Biome: Tropical rain forest and Taiga	Baidyanath Sarkar	4

LESSON PLAN (NEP 2020)

SEMESTER-I

Type: Multidisciplinary Course

PAPER: I (Theory) MDC, SESSION- JULY-DECEMBER,2023

COURSE CODE: GEOG-MU-T-1

COURSE TITLE: DISASTER MANAGEMENT

Total Marks: 45

Credits-3

Unit	Topic	Teacher	Total Class
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Unit-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of Hazards.	Baidyanath Sarkar	4
Unit-2	Flood, drought, landslide: causes, impact and distribution in India.	Baidyanath Sarkar	4
Unit-3	Earthquake: causes, effects and seismic zones of India; Tsunami: causes and effects.	Baidyanath Sarkar	4
Unit-4	Tropical Cyclone: structure, formation and impact with reference to India.	Baidyanath Sarkar	4
Unit-5	Manmade disasters in India: soil erosion and accidental release of toxic chemicals – causes and impact.	Baidyanath Sarkar	4
Unit-6	Disasters – response and mitigation measures: Institutional set up – NDMA and NIDM; Indigenous knowledge and community-based Disaster Management; Do's and Don'ts during and post disasters.	Baidyanath Sarkar	4

**LESSON PLAN (NEP 2020)  
SEMESTER-II**

**Type: Minor**

**PAPER: I (Theory), SESSION- JANUARY-JUNE, 2024**

**COURSE CODE: GEOG-MI-T-1**

**COURSE TITLE: PHYSICAL GEOGRAPHY**

**Marks-50**

Unit	Topic	Teacher	Total Class
Unit-1	Internal structure of the earth	Baidyanath Sarkar	4
Unit-2	Continental drift theory: Mechanism, evidences and criticisms	Baidyanath Sarkar	4
Unit-3	Plate tectonics: Mechanism and resultant landforms	Baidyanath Sarkar	4
Unit-4	Geomorphic process: Weathering	Baidyanath Sarkar	4
Unit-5	Processes and landforms: Fluvial, Glacial, Aeolian and Coastal	Baidyanath Sarkar	4
Unit-6	Composition and structure of the atmosphere	Baidyanath Sarkar	4
Unit-7	Insolation, Heat budget, Horizontal and vertical distribution of temperature	Baidyanath Sarkar	4
Unit-8	Hydrological cycle	Baidyanath Sarkar	4

Unit-9	Definition of soil, concept of soil profile and soil forming factors; Types of soil: Zonal, Azonal and Intrazonal	Baidyanath Sarkar	4
Unit-10	Concept of ecology and ecosystem; Biome: Tropical rain forest and Taiga	Baidyanath Sarkar	4

**LESSON PLAN (NEP 2020)**  
**SEMESTER-II**  
**Type: Multidisciplinary Course**  
**PAPER: II (Theory), SESSION- JANUARY-JUNE, 2024**  
**COURSE CODE: GEOG-MU-T-1**  
**COURSE TITLE: DISASTER MANAGEMENT**

Unit	Topic	Teacher	Total Class
Unit-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of Hazards.	Baidyanath Sarkar	4
Unit-2	Flood, drought, landslide: causes, impact and distribution in India.	Baidyanath Sarkar	4
Unit-3	Earthquake: causes, effects and seismic zones of India; Tsunami: causes and effects.	Baidyanath Sarkar	4
Unit-4	Tropical Cyclone: structure, formation and impact with reference to India.	Baidyanath Sarkar	4
Unit-5	Manmade disasters in India: soil erosion and accidental release of toxic chemicals – causes and impact.	Baidyanath Sarkar	4
Unit-6	Disasters – response and mitigation measures: Institutional set up – NDMA and NIDM; Indigenous knowledge and community-based Disaster Management; Do's and Don'ts during and post disasters.	Baidyanath Sarkar	4

**LESSON PLAN (NEP 2020)**  
**SEMESTER-III**  
**Type: Multidisciplinary Course**  
**PAPER: I (Theory) MDC, SESSION- JULY-DECEMBER,2024**  
**COURSE CODE: GEOG-MU-T-1**  
**COURSE TITLE: DISASTER MANAGEMENT**  
**Total Marks: 45**

Unit	Topic	Teacher	Total Class
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Unit-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of Hazards.	Baidyanath Sarkar	4
Unit-2	Flood, drought, landslide: causes, impact and distribution in India.	Baidyanath Sarkar	4
Unit-3	Earthquake: causes, effects and seismic zones of India; Tsunami: causes and effects.	Baidyanath Sarkar	4
Unit-4	Tropical Cyclone: structure, formation and impact with reference to India.	Baidyanath Sarkar	4
Unit-5	Manmade disasters in India: soil erosion and accidental release of toxic chemicals – causes and impact.	Baidyanath Sarkar	4
Unit-6	Disasters – response and mitigation measures: Institutional set up – NDMA and NIDM; Indigenous knowledge and community-based Disaster Management; Do's and Don'ts during and post disasters.	Baidyanath Sarkar	4

**LESSON PLAN (NEP 2020)**

**SEMESTER-III**

**Type: Minor**

**PAPER: I (Theory) MDC, SESSION- JULY-DECEMBER,2024**

**COURSE CODE: GEOG-MI-T-2**

**COURSE TITLE: HUMAN GEOGRAPHY**

**Total Marks: 50**

Unit	Topic	Teacher	Total Class
Unit-1	Distribution and growth population in India	Baidyanath Sarkar	4
Unit-2	Demographic Transition Theory	Baidyanath Sarkar	4
Unit-3	Migration: Concept, types and causes	Baidyanath Sarkar	4
Unit-4	Economic activities: Primary, Secondary and Tertiary	Baidyanath Sarkar	4
Unit-5	Types and patterns of rural settlements	Baidyanath Sarkar	4
Unit-6	Urban settlement: Census definition and characteristics	Baidyanath Sarkar	4
Unit-7	Functional classification of towns	Baidyanath Sarkar	4
Unit-8	Major ethnic groups in India: Santhal, Gond, Toda and Khasi	Baidyanath Sarkar	4

Unit-9	Concept of culture, Cultural hearts and Cultural diffusion	Baidyanath Sarkar	4
Unit-10	Human Development Index	Baidyanath Sarkar	4

**DEPARTMENT OF GEOGRAPHY, 3<sup>RD</sup> SEMESTER HONOURS GE**

**JULY-DECEMBER SESSION,2023**

**GEO/H/GE/T/01/A: (Theory): Disaster Management**

Credits-6

Unit	Topic	Teacher	Total Class
Unit-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of hazards	Baidyanath Sarkar	8
Unit-2	Disasters in India: (a) Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping	Baidyanath Sarkar	8
Unit-3	Disasters in India: (b) Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping.	Baidyanath Sarkar	8
Unit-4	Manmade disasters: Causes, Impact, Distribution and Mapping of Soil erosion and Accidental release of toxic chemicals	Baidyanath Sarkar	8
Unit-5	Response and Mitigation to Disasters: Institutional set up, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters	Baidyanath Sarkar	8

**DEPARTMENT OF GEOGRAPHY, 3<sup>RD</sup> SEMESTER CORE PROGRAM**

**GEO/G/CC/T/03: (Theory): Human Geography**

**JULY-DECEMBER SESSION,2023**

Credits-4

Unit	Topic	Teacher	Total Class
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Unit-1	Definition, Nature, Major Subfields, Contemporary Relevance	Baidyanath Sarkar	4
Unit-2	Space and Society: Cultural Regions; Race; Religion and Language	Baidyanath Sarkar	5
Unit-3	Population: Population Growth and Demographic Transition Theory	Baidyanath Sarkar	4
Unit-4	Types of Population Migration with Reference to India	Baidyanath Sarkar	4
Unit-5	World Population Distribution and Composition (Age, Gender and Literacy)	Baidyanath Sarkar	5
Unit-6	Settlements: Types and Patterns of Rural Settlements	Baidyanath Sarkar	4
Unit-7	Classification of Urban Settlements; Functional Classification of Towns	Baidyanath Sarkar	4

**DEPARTMENT OF GEOGRAPHY, 3<sup>RD</sup> SEMESTER CORE PROGRAM**

**GEO/G/CC/P/03: (Practical): Map Projection and Map Interpretation**

**JULY-DECEMBER SESSION,2023**

Credits-2

Unit	Topic	Teacher	Total Class
Unit-1	Simple Conical Projection with One Standard Parallel	Baidyanath Sarkar	2
Unit-2	Cylindrical Equal Area Projection	Baidyanath Sarkar	2
Unit-3	Interpretation of Topographical Maps: relation between Physiography, Drainage and Settlement	Baidyanath Sarkar	3
Unit-4	Interpretation of Weather Maps (Pre-Monsoon, Monsoon and Post Monsoon)	Baidyanath Sarkar	3

**DEPARTMENT OF GEOGRAPHY, 3<sup>RD</sup> SEMESTER CORE PROGRAM SEC**

**JULY-DECEMBER SESSION,2023**

**GEO/G/SEC/P/01/A: (Practical): Computer Basics and Computer Applications**

Credits-2

Unit	Topic	Teacher	Total Class
Unit-1	Numbering Systems; Binary Arithmetic	Baidyanath Sarkar	7
Unit-2	Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Coefficient of Variation , Regression	Baidyanath Sarkar	8

Unit-3	. Preparation of Annotated Diagrams and its Interpretation: Scatter Diagram and Histogram	Baidyanath Sarkar	8
Unit-4	Internet Surfing: Generation and Extraction of Information	Baidyanath Sarkar	7

## **GEOGRAPHY 4<sup>TH</sup> SEMESTER PROGRAM COURSE**

**GEO/G/CC/T/04: (Theory): Environmental Geography**

**January-June Session,2024**

Credits-4

UNIT	TOPIC	TEACHER	TOTAL CLASS
Unit-1	Concepts and approaches of Environmental Geography	Baidyanath Sarkar	4
Unit-2	Concept, Structure and Functions of Ecosystem	Baidyanath Sarkar	5
Unit-3	Definition of Biosphere, Meaning of Ecology, Ecotone, Habitat, Community, Ecological Niche, Biotopes and Biomes	Baidyanath Sarkar	5
Unit-4	Environmental Problems and Management: Air and Water Pollution	Baidyanath Sarkar	5
Unit-5	Environmental Programmes and Policies: MAB	Baidyanath Sarkar	4
Unit-6	Wetlands: Ramsar Sites in India	Baidyanath Sarkar	3
Unit-7	Human-Environment Relationship in Mountain and Coastal Regions	Baidyanath Sarkar	4

## **GEOGRAPHY 4<sup>TH</sup> SEMESTER PROGRAM COURSE**

**GEO/G/CC/P/04: (Practical): Field Work**

**January-June Session,2024**

Credits-2

UNIT	TOPIC	TEACHER	TOTAL CLASS
Unit-1	Preparation of Survey Schedule or Questionnaire for Air Pollution and Health Perception Survey	Baidyanath Sarkar	5
Unit-2	Mapping of Wetlands from Topographical Sheet	Baidyanath Sarkar	2

Unit-3	Mapping of Forest from Topographical Sheet	Baidyanath Sarkar	3
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**GEOGRAPHY 4<sup>TH</sup> SEMESTER SEC PROGRAM COURSE**  
**GEO/G/SEC/P/02/B: (Practical): Field Work**  
**January-June Session,2024**

**2 Credits**

UNIT	TOPIC	TEACHER	TOTAL CLASS
1	<b>Field Work-</b> Students are required to carry out a comprehensive field work in a village/mouza/town/C.D.Block/ drainage basin selecting a particular <b>research problem</b> .	Baidyanath Sarkar	30

**GEOGRAPHY 4<sup>th</sup> SEMESTER GE LESSON PLAN**  
**GEO/H/GE/T/02/B: (Theory): Regional Development**  
**January-June Session**

UNIT	TOPIC	TEACHER	TOTAL CLASS
UNIT-1	Definition of Region, Evolution, Types and Need of Regional planning: Formal, Functional and Planning Regions and Regional Development	Baidyanath Sarkar	4
UNIT-2	Regional Imbalances and Problems of Functional Regions	Baidyanath Sarkar	4
UNIT-3	Choice of a Region for Planning: Characteristics of an Ideal Planning Region; Delineation of Planning Region; Regionalization of	Baidyanath Sarkar	4



	India for Planning (Agro Ecological Zones)		
UNIT-4	Strategies/Models for Regional Planning: Growth Pole Model of Perroux; Growth Centre Model in Indian Context; Village Cluster	Baidyanath Sarkar	4
UNIT-5	Problem Regions and Regional Planning: Backward Regions and Regional Plans- Special Area Development Plans in India; DVC-The Success Story and the Failures	Baidyanath Sarkar	4
UNIT-6	Concept of Human Development and HDI (Human Development Index)	Baidyanath Sarkar	4

**DEPARTMENT OF GEOGRAPHY, 5<sup>TH</sup> SEMESTER CORE PROGRAM DSE**  
**GEO/G/DSE/T/01/A: (Theory): Geography of India**  
**JULY-DECEMBER SESSION,2023**

**Credits-6**

Unit	Topic	Teacher	Total Class
Unit-1	Physical Setting – Location, Structure and Relief, Drainage, Climate.	Baidyanath Sarkar	8
Unit-2	Population – Size and Growth since 1901, Population Distribution, Literacy, Sex Ratio.	Baidyanath Sarkar	8
Unit-3	Settlement System - Rural Settlement Types and Patterns, Urban Pattern.	Baidyanath Sarkar	8
Unit-4	4. Resource Base – Livestock (cattle and fisheries), Power (coal, and hydroelectricity), Minerals (iron ore and bauxite).	Baidyanath Sarkar	8
Unit-5	Economy – Agriculture (Rice, Wheat, Sugarcane, Groundnut, Cotton); Industries (Cotton Textile, Iron-Steel, Automobile), Transportation Modes (Road and Rail).	Baidyanath Sarkar	8

**ASANNAGAR MMT COLLEGE**  
**DEPARTMENT OF GEOGRAPHY, 5<sup>TH</sup> SEMESTER CORE PROGRAM**  
**JULY-DECEMBER SESSION,2023**  
**GEO/G/GE/T/01: (Theory): Disaster Management**

**Credits-6**

Unit	Topic	Teacher	Total Class
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Unit-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of hazards	Baidyanath Sarkar	8
Unit-2	Disasters in India: (a) Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping	Baidyanath Sarkar	8
Unit-3	Disasters in India: (b) Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping.	Baidyanath Sarkar	8
Unit-4	Manmade disasters: Causes, Impact, Distribution and Mapping of Soil erosion and Accidental release of toxic chemicals	Baidyanath Sarkar	8
Unit-5	Response and Mitigation to Disasters: Institutional set up, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters	Baidyanath Sarkar	8

**DEPARTMENT OF GEOGRAPHY, 6<sup>TH</sup> SEMESTER CORE PROGRAM DSE-2**  
**JANUARY-JUNE SESSION, 2024**  
**GEO/G/DSE/T/02/A: (Theory): Disaster Management**

**Credits-6**

UNIT	TOPIC	TEACHER	TOTAL CLASS
UNIT-1	Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification of hazards	Baidyanath Sarkar	8
UNIT-2	Disasters in India: (a) Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping	Baidyanath Sarkar	8

UNIT-3	Disasters in India: (b) Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping.	Baidyanath Sarkar	8
UNIT-4	Manmade disasters: Causes, Impact, Distribution and Mapping of Soil erosion and Accidental release of toxic chemicals	Baidyanath Sarkar	8
UNIT-5	Response and Mitigation to Disasters: Institutional set up, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters	Baidyanath Sarkar	8

**DEPARTMENT OF GEOGRAPHY, 6<sup>TH</sup> SEMESTER CORE PROGRAM GE-2**

**JANUARY-JUNE SESSION, 2024**

**GEO/G/GE/T/02: (Theory): Sustainable Development**

**Credits-6**

Unit	Topic	Teacher	Total Class
Unit-1	Sustainable Development: Historical Background, Definition, Components, Limitations	Baidyanath Sarkar	4
Unit-2	Sustainable Regional Development: Need and examples from different Ecosystems	Baidyanath Sarkar	4
Unit-3	Inclusive Development: Education and Health	Baidyanath Sarkar	4
Unit-4	Climate change and sustainable development: Policies and global cooperation	Baidyanath Sarkar	4
Unit-5	Poverty and disease; Human right to health; Challenges of Universal Health Coverage	Baidyanath Sarkar	4
Unit-6	Sustainable Development Policies and Programmes: The proposal for SDGs at Rio+20; Illustrative SDGs; Goal-Based Development	Baidyanath Sarkar	4
Unit-7	Sustainable Development: Financial issues	Baidyanath Sarkar	4
Unit-8	Good Governance for sustainable development	Baidyanath Sarkar	4
Unit-9	National Environmental Policy, Clean development mechanism	Baidyanath Sarkar	4

Unit-10	Sustainable regional resource development and livelihood security	Baidyanath Sarkar	4
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**DEPARTMENT OF GEOGRAPHY, 6<sup>TH</sup> SEMESTER CORE PROGRAM SEC-4**  
**GEO/G/SEC/P/04/B: (Practical): Rocks and Minerals and their Megascopic Identification**  
**JANUARY-JUNE SESSION, 2024**

**2 Credits**

Unit	Name of the Topic	Teacher's Name	Total Class
Unit-1	Types and characteristics of rocks and minerals	Baidyanath Sarkar	5
Unit-2	Megascopic identification of the following rocks and minerals mentioning their identifying characteristics.  Name of the Rocks: Granite, Basalt, Dolerite, Shale, Limestone, Sandstone, Gneiss, Slate, Quartzite, Marble Name of the Minerals: Quartz, Feldspar, Mica (Muscovite and Biotite), Calcite, Bauxite, Magnetite, Haematite, Galena, Chalcopyrite.	Baidyanath Sarkar	5