

DEPARTMENT OF GEOGRAPHY

CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Course Module (General)

Semester-I

CC1 A: Geomorphology and Cartography

Credits 4+2=6

Sl. No.	Unit Name /Topic Name	No. Of Class
	Unit I: Geotectonics and Geomorphology	40
1	Weathering: Types and related landforms.	5
2	Lithosphere – Internal Structure of Earth based on Seismic Evidence.	5
3	Plate Tectonics and its associated landforms	5
4	Landform development in arid regions	5
5	Landform development in glaciated regions.	5
6	Development of fluvial landforms	5
7	Fluvial Cycle of Erosion – Davis and Penck	5
8	Hydrological Cycle and ground water	5
	Unit II: Scale and Cartography (Practical)	30
1	Linear and Comparative scale	7
2	Proportional diagrams: Circles and squares	8
3	Composite bar diagram and age-sex pyramid.	7
4	Taylor's Climograph and Hythergraph	8

Semester-II

CC 1B: Physical Environment and Surveying

Credits 4

Sl. No.	Unit Name /Topic Name	No. of Class
	Unit I: Climatology, Soil and Biogeography (Theory)	40
1	Elements of weather and climate. Thermal and chemical composition and layering of the	6
2	Horizontal and vertical distribution of temperature	4
3	Forms of precipitation and types of rainfall	4
4	Tropical and Temperate Cyclones, Climatic Classification (Koppen)	5
5	Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	6
6	Soil forming factors. Soil formation (Podzol and Laterite)	4
7	Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem.Environment,	6
8	Biomes: Rainforest and Temperate Grassland.	5
	Unit II: Surveying and Levelling (Practical)	Credits 2
1	Definition and classification of surveying	7
2	Plane table survey by radiation method.	8
3	Open and close traversing by Prismatic Compass	8
4	Drawing of longitudinal profile by Dumpy level	7

1

Department of Geography
Chandidas Mahavidyalaya
Khujutipara, Birbhum

DEPARTMENT OF GEOGRAPHY

CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Semester-III

CC IC: Human Geography and Map Study Credits 4+2 = 6

Sl. No.	Unit Name /Topic Name	No. of Class
	Unit I: Human Geography (Theory) Credit 4	40
1	Definition, Nature, Major Subfields, Contemporary Relevance	5
2	Space and Society: Cultural Regions; Race; Religion and Language	5
3	Eskimos: Adjustment to the environment and recent development	5
4	Population: Population Growth and Demographic Transition Theory	5
5	Types of population migration with reference to India	5
6	World Population Distribution and Composition (Age, Gender and Literacy)	5
7	Settlements: Types and Patterns of Rural Settlements;	5
8	Classification of Urban Settlements; Functional classification of towns	5
	Unit II: Map Projection and Map interpretation (Practical) Credits 2	30
1	Simple Conical projection with one standard parallel	6
2	Cylindrical Equal Area projection	6
3	Interpretation of Topographical maps: Relation between Physiography, drainage and settlement	10
4	Interpretation of weather maps	8

Semester - IV

CC - ID: ENVIRONMENTAL GEOGRAPHY Credit: 6 (4+2)

Sl. No.	Unit Name /Topic Name	No. of Class
	Unit 1: (Theoretical) Credit: 4	40
1	Concepts and approaches of Environmental Geography:	5
2	Concept, Structure and Functions of Ecosystem	5
3	Human-Environment Relationship in Mountain and Coastal Regions	5
4	Environmental Problems and Management: Air and Water Pollution	5
5	Environmental Programmes and Policies: MAB	5
6	Forest and Wild Life Policy of India	5
7	Environmental Movements in India: Chipko	5
8	Wetlands: Ramsar Sites in India	5
	Unit 2: (Practical) Credit: 2	30
1	Questionnaire for Air Pollution and Health Perception Survey	8
2	Soil Test using Kit : pH and Organic Carbon	6
3	Mapping of Wetlands from Topographical Sheet	8
4	Mapping of Forest from Topographical Sheet	8

[Signature]
A. G. B. Roy

Department of Geography
Chandidas Mahavidyalaya
Khujutipara, Birbhum

DEPARTMENT OF GEOGRAPHY CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Semester – IV

SEC-2: REGIONAL PLANNING AND DEVELOPMENT Credit: 2

Sl. No.	Unit Name /Topic Name	No. of Class
1	Definition of Region; Types of Regions	3
2	Regional Planning – Concept and Significance	2
3	Human Development Index – Concept and Indicators	3
4	Agricultural Development in India Since 1970s	2
5	Industrial Development in India Since 1990s	2
6	Planning Region: DVC	2
7	Preparation of Questionnaire on Sanitation and Health	3
8	Preparation of Questionnaire on Waste Management	3

Semester – IV

SEC-2 OR: GIS BASED PROJECT REPORT Credit: 2

Sl.	Unit Name /Topic Name	No. of Class
1	GIS Data Structures: Types (Spatial and Non-Spatial), Raster and Vector	4
2	Different Applications of GIS	3
3	Characteristics of EMR for Remote Sensing	3
4	Visible Spectrum of EMR	3
5	Preparation of False Color Composites from IRS LISS-III Satellite Image	3
6	Identification and mapping of three Physical and Cultural Features each	4

Semester - V

DSE-1A: GEOGRAPHY OF INDIA Credit: 4

Sl. No.	Unit Name /Topic Name	No. of Class
1	Physical Setting – Landforms, Drainage, Climate	5
2	Population – Size and Growth since Independence	5
3	Settlement – Rural and Urban Types	4
4	Agricultural Resource: Rice and Wheat and Cotton	6
5	Mineral Resource - Iron ore and Bauxite	5
6	Energy Resources: Coal and Petroleum	5
7	Industries: Cotton Textile and Iron and Steel	4
8	Regional Account of Sunderban and Marusthali	6

Semester - V

DSE-1A: FIELD WORK Credit: 2

Sl. No.	Unit Name /Topic Name	No. of Class
1	Pre-Field Study, Questionnaire and SOP Preparation	8
3	Data Collection in Field	10
4	Post Field Analysis and Report Writing	12

[Signature]

[Signature]

Department of Geography
Chandidas Mahavidyalaya
Khujutipara, Birbhum

DEPARTMENT OF GEOGRAPHY CHANDIDAS MAHAVIDYALAYA



ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.

Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Semester – V

DSE 1A OR: ECONOMIC GEOGRAPHY Credit: 6 (4+2)

Sl. No.	Unit Name /Topic Name	No. of Class
	UNIT: 1 – Economic Geography	40
1	Scope and Content of Economic Geography	5
2	Von Thunen Theory of Land Use	5
3	Theory of Industrial Location - Weber	5
4	Types of Farming	5
5	Intensive Subsistence Farming and Plantation Agriculture	5
6	Commercial Fishing	5
7	Mining (iron ore, coal and petroleum)	5
8	Cotton Textile Industry, Petro-Chemical Industry	5
	UNIT: 2 – Field Work (Practical)	30
9	Pre-Field Study	4
10	Questionnaire and SOP Preparation	4
11	Data Collection in Field	10
12	Post Field Analysis	5
13	Report Writing	7

Semester – V

GE- 1: PHYSICAL GEOGRAPHY Credit: 6

Sl. No.	Unit Name /Topic Name	No. of Class
1	Physical Geography – Definition and Scope	8
2	Atmosphere – Heat Balance, Global wind Circulation Pattern, Monsoon, Climatic Classification (Koppen)	14
3	Lithosphere – Internal Structure of Earth based on Seismic Evidence, Plate Tectonics and its Associated Features	13
4	Fluvial Cycle of Erosion – Davis and Penck	12
5	Hydrosphere – Global Hydrological Cycle, Ocean Bottom Relief Features (Atlantic), Tides and Ocean Currents (Atlantic)	13

Semester – V

SEC-3: FIELD TECHNIQUES AND SURVEY BASED PROJECT REPORT (PRACTICAL) Credit: 2

Sl. No.	Unit Name /Topic Name	No. Of Class
1	Significance of Field Work in Geographical Studies	5
2	Selection of Study Area – Rural or Urban	5

DEPARTMENT OF GEOGRAPHY

CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

3	Field Techniques – Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant)	5
4	Questionnaires (Open/ Closed / Structured / Non-Structured)	5
5	Interview with Special Focuson Focused Group Discussions	5
6	Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report	5

SEC-3 OR: COLLECTION MAPPING AND INTERPRETATION OF CLIMATIC DATA Credit: 2

Sl. No.	Unit Name /Topic Name	No. Of Class
1	Sources of Climatic Data	4
2	Instruments for Recording of Climatic Data	4
3	Preparation of Rainfall – Temperature Graph	4
4	Preparation of Climograph and Hythergraph	3
5	Preparation of Ergograph	3
6	Drawing of Windrose Diagram	3
7	Drawing Isotherm and Isohyet	3
8	Interpretation of daily Indian Weather Map	6

Semester – VI

DSE-1B: DISASTER MANAGEMENT Credit: 6 (4+2)

Sl. No.	Unit Name /Topic Name	No. Of Class
	UNIT: 1 – Disaster Management	40
1	Meaning and Classification of Hazards and Disasters.	5
2	Approaches to hazard study: Risk perception and vulnerability assessment.	5
3	Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.	5
4	Hazard mapping: Data and techniques.	5
5	Earthquake: Causes, Consequences and Management	5
6	Landslide: Causes, Consequences and Management	5
7	Cyclone: Causes, Consequences and Management	5
8	Flood: Causes, Consequences and Management	5
	UNIT:2 – Disaster Management Project Work (List of Practical)	30
1	Pre-Field Study	4
2	Questionnaire and SOP Preparation	4
3	Data Collection in Field	10
4	Post Field Analysis	5
5	Report Writing	7

DEPARTMENT OF GEOGRAPHY

CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Semester – VI

DSE- 1B OR: GEOGRAPHY OF TOURISM Credit: 6 (4+2)

Sl. No.	Unit Name /Topic Name	No. Of Class
	Unit: 1 Geography of Tourism	40
1	Concepts, Nature and Scope of Tourism Geography	5
2	Relationships of Tourism with Recreation and Leisure;	5
3	Type of Tourism: Nature Tourism, Pilgrimage and Heritage Sites	5
4	Recent Trends of Tourism: Domestic (India)	5
5	Concept of Eco-Tourism and Homestay Tourism	5
6	Concept of Sustainable Tourism	5
7	Impact of Tourism on Economy	5
8	Problems and Prospects of Tourism in India	5
	Unit: 2 Geography of Tourism Project Work	30
1	Pre-Field Study	4
2	Questionnaire and SOP Preparation	4
3	Data Collection in Field	10
4	Post Field Analysis	5
5	Report Writing	7

Semester – VI

GE- 2: HUMAN GEOGRAPHY Credit: 6

Sl. No.	Unit Name /Topic Name	No. of Class
1	Definition, Nature, Major Subfields, Contemporary Relevance	8
2	Space and Society: Cultural Regions; Race; Religion	16
3	Population: Population Growth and Demographic Transition Model	10
4	World Population Distribution and Composition (Age, Gender and Literacy)	14
5	Settlements: Types and Patterns of Rural Settlements; Functional Classification of Urban Settlements; Trends and Patterns of Urbanization of India since independence	12

Semester – VI

SEC- 4: Collection, Mapping and Interpretation of Pedological Data Credit: 2

Sl. No.	Unit Name /Topic Name	No. of Class
1	Soil Sampling Techniques	5
2	Representation of Soil Texture Data using Ternary Diagram	4
3	Estimation of Nitrogen using Soil Kit	6
4	Estimation of Soil PH using Soil Kit	6
5	Estimation of Soil Organic Carbon using Soil Kit	4

[Handwritten signatures]
Department of Geography
Chandidas Mahavidyalaya
Khujutipara, Birbhum

DEPARTMENT OF GEOGRAPHY CHANDIDAS MAHAVIDYALAYA

ESTD. - 1972. A Govt. Aided General Degree College
Affiliated to The University of Burdwan. UGC
Accredited under section 2(f) & 12(B)[1979]. NAAC Re-
Accredited in 2016.



Khujutipara,
Birbhum
West Bengal,
India - 731215

Ref. No.....

Date.....

Semester – VI SEC- 4 OR: Rocks and Minerals and their Megascopic Identification Credit: 2

Sl. No.	Unit Name /Topic Name	No. of Class
1	Differences in Rocks and Minerals	5
2	Process of Consolidation of Rocks and Minerals and their Preservation	5
3	Identifiable Characteristics of Rocks	5
4	Identifiable Characteristics of Minerals	5
5	Megascopic Identification of Rocks -Basalt, Gneiss, Sandstone, Gneiss, Intrusive	5
6	Megascopic Identification of Minerals - Hematite, Quartz, Feldspar, Mica, Chalcopyrite	5

[Signature]

[Signature]

7

Department of Geography
Chandidas Mahavidyalaya
Khujutipara, Birbhum

Website: <https://www.chandidasmahavidyalaya.ac.in/>
E-mail : mail2geogcm@gmail.com ; M:(+91) 9733562408