গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE

TEACHING PLAN

DEPARTMENT OF GEOGRAPHY

JULY 2023 - JUNE 2024

GARGAON COLLEGE
TEACHING PLAN

Course: B. A.

Session: Odd semester 2023-24

Subject: GEOGRAPHY

Name of the Teacher: DWIJEN NATH

Methods to be applied: Lecture, globe, chart, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/Title	**Allotted Unit/ Topic**	**No. of Class required**	**Detail of the topics to be taught & class required**	**No. of tutorials**
GEOMORPHOLOGY Minor-I	**Geomorphic Processes (Endogenetic)**	6	Internal structure of the earth, concept of airy and Pratt in Isostacy, Slow and sudden movements, orogenic and epeirogenic movements, types of folding and faulting and mountain building, geosynclines, theories of geo geosynclines, (Geosynclinal Orogen theory of Kober& Convection Current theory of Holme), Earthquakes , causes and Volcanoes, causes and distribution .	3
PHYSICAL GEOGRAPHY GECGGR1A	**Lithosphere and Biosphere**	5	Earthquakes and Volcanoes (Distribution, causes, effects). d. Soil and Vegetation; Types and Distribution	3

Cartography 301 T4	History of development of map projections, classification and use of different types of map projections, Choice of map projection	8	• History of development of map projections, • Classification of map projections • use of different types of map projections • Choice of map projection	2
	Basic principles of surveying and their necessity in Geography : Vertical and horizontal controls	10	• Introduction to Basic principles of surveying and their necessity in Geography • Vertical and horizontal controls	3
Cartographic Techniques GGRM 302 P2	i. Projection: Conical One Standard, Bonne's and Polyconic Cylindrical;	5	• Conical Projection • One Standard Projection • Bonne's Projection • Polyconic Cylindrical Projection	2
Population Geography GGRM 502 T4	i. Defining the Field – Nature and Scope; Sources of Data with special reference to India (Census, Vital Statistics and NSS).	8	• Defining the Field – Nature and Scope • Sources of Data with special reference to India (Census, Vital Statistics and NSS).	3
	ii. Population Size, Distribution and Growth – Determinants and Patterns; Theories of Growth – Malthusian Theory and Demographic Transition Theory.	10	• . Population Size, Distribution and Growth – Determinants and Patterns • Theories of Growth – Malthusian Theory and Demographic Transition Theory.	3
	iii. Population Dynamics: Fertility, Mortality and Migration – Measures, Determinants and Implications.	10	• .Population Dynamics: Fertility • Mortality • Migration – Measures • Determinants and Implications	4

MA 1st Semester				
Paper Code/Title	**Allotted Unit/ Topic**	**No. of Class required**	**Detail of the topics to be taught & class required**	**No. of tutorials**
GG1D2:Geography of Resources and Economic Development	**Conceptual parameters of Resources**	6	Concept and classification of resources, Dynamics of resource as related to cultural, economic and technological development , methods of conservation and management of Resources	3

Dr. Dilip Kumar Deka
Associate Professor & HOD
Dept. of Geography
Gargaon College

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TEACHING PLAN

Course: B. A.

Session: Odd semester 2023

Subject: GEOGRAPHY

Name of the Teacher: DR. DILIP KUMAR DEKA

Methods to be applied: Lecture, illustration, demonstration, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chalk Pencil, Duster, Atlas, Toposheet, Maps, Globe, Charts, Models, Geographical tools, Book, Journal, Newspaper, Magazine, Laptop, and Projector.

Paper Code/Title	Allotted Unit/ Topic	No. of Classes Required	Detail of the topics to be taught & class required	No. of tutorials
SEMESTER I				
COURSE C1 GEOMORPHOLOGY	Geomorphic Processes (Endogenetic and Exogenetic)	16	1. Internal structure of the earth, crust mantle and core. 2. Concept of Isostacy: Views and airy and pratt. 3. Earth movements: slow and sudden movements, orogenic and epierogenic movements. Types of folding and faulting. 4. Mountain building and its associated theories. 5. Concept and theories of geosyncline s, causes and distribution of earthquake,	4

			P, S, L Wave, Causes and types of volcanic activity and distribution. 6. Exogenetic Processes- factors and types of Weathering, factors controlling Mass Wasting and its types. 7. Cycle of erosion: concept associated with W M Davis and W penck.	
COURSE C1 GGRM 101P2: GEOMORPHIC TECHNIQUES	1.Morphometric Analysis: Drainage ordering, basin	6	• Concept of morphometric analysis [1]	2

(PRACTICAL)	Area demarcation, drainage density, Bifurcation ratio.		• Drainage Ordering: Horton's Method [1] • Drainage Ordering: Strahler's Method [1] • Basin Area Demarcation [1] • Drainage Density [1] • Bifurcation Ratio [1]	
PHYSICAL GEOGRAPHY GEC-1-A	1. Atmospheric Composition and Structure – Variation with Altitude, Latitudeand Season.	5	• Concept of Atmosphere and its Composition [1] • Structure of Atmosphere, its variation with altitude, latitude and Season [4]	1
	2. Insolation and Temperature – Factors and Distribution, Heat Budget, Temperature Inversion.	7	• Concept of insolation, factors affecting insolation [2] • Temperature, factors affecting temperature and its distribution [3] • Heat budget [1] • Concept of Temperature Inversion [1]	2
SEMESTER III				
COURSE C5 GGRM 301T4: CARTOGRAPHY (THEORY)	1. Surveying and leveling: i) Plane table surveying – different methods ii) Prismatic compass surveying – closed and open traverse, calculation of included angles, correction of bearing, omitted measurement iii) Theodolite traversing – measurement of	22	• Concept of Surveying and Leveling [2] • Plane Table Surveying: Different Methods [6] • Prismatic Compass Surveying: Closed and Open Traverse [6] • Theodolite Surveing: Measurement of height [4]	6

	heights iv) Levelling – different types		• Levelling and its types [4]	
C5 **GGRM 302P2: CARTOGRAPHIC TECHNIQUES (PRACTICAL)**	1. Projection:Equal Area, Equidistant, Galls Stereography and Mercator projection.	4	• Projection: Equal Area [1] • Projection : Equidistant [1] • Projection: Gall's Stereographic [1] • Projection: Mercator's [1]	2
COURSE C7 **GGRM 303T6: STATISTICAL METHODS IN GEOGRAPHY (THEORY)**	1. Use of Data in Geography: Geographical Data Matrix, Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval, Ratio).	9	• Concept of Geographical Data [1] • Use of data in geography [1] • Geographical Data Matrix [1] • Statistical Methods in Geography [4] • Sources of data [1] • Scales of Measurement [1]	3
	2. Tabulation and Descriptive Statistics: Frequencies (Deciles, Quartiles), Cross Tabulation, Central Tendency (Mean, Median and Mode, Centro-graphic Techniques, Dispersion (Standard Deviation, Variance and Coefficient of Variation).	14	• Tabulation and Descriptive Statistics [1] • Deciles and Quartiles [4] • Cross Tabulation [1] • Central Tendency: Mean, Median Mode [4] • Techniques of Dispersion: Standard Deviation, Variance and coefficient of Variation [4]	4
	3. Sampling: Purposive, Random, Systematic and Stratified.	5	• Concept of Sampling [1] • Purposive, random, systematic and Stratified sampling [4]	2

SEMESTER V				
Course C12 GGRM502T4: POPULATION GEOGRAPHY (Theory)	1. Population Dynamics: Fertility, Mortality and Migration – Measures, Determinants and Implications.	7	• Population dynamics [1] • Fertility and its various determinants and its implications [2] • Mortality and its various determinants and its implications[2] • Migration, types of migration, its determinants and its implications [2]	3
	2. Population Composition and Characteristics – Age-Sex Composition; Rural and Urban Composition; Literacy.	9	• Composition of population and its various features [2] • Age Sex composition [2] • Rural and Urban Composition [4] • Literacy and its composition in India [1]	3
	3. Contemporary Issues – Ageing of Population; Declining Sex Ratio; HIV/AIDS.	4	• Major contemporary issues of population [1] • Ageing of Population [1] • Declining Sex Ratio [1] • Problem of HIV/AIDS [1]	2
Course C12 GGRM 502P2: POPULATION GEOGRAPHY (Practical)	1. Statistical Data representation Part I c) Traffic flow and isochronic cartograms	4	• Concept of traffic flow and its representation: India and North-East India [2] • Isochronic cartograms: India and Assam [2]	2
	2. Statistical Data representation Part	2	• Location Quotient analysis: Assam	2

	II a) Location quotient analysis b) Lorenz curve		[1] • Location Quotient analysis [1]	
DSE 2 (6 C) **GGRM DSE502BT6: AGRICULTURAL GEOGRAPHY**	1. Defining the Field: Introduction, nature and scope; Land use/ land cover definition and classification.	4	• Concept of agricultural geography: Meaning and Definition [1] • Nature and Scope of agriculture geography [1] • Concept of Land Use and Land Cover [1] • Land use and land cover classification [1]	2
	2. Determinants of Agriculture: Physical, Technological and Institutional	4	• Determinants of agriculture, physical, technological and institutional [4]	1
	3. Agricultural Regions of India: Agro-climatic, Agro-ecological & Crop Combination Regions.	3	• Agro-climatic regions of India [1] • Agro-Ecological Regions of Indi [1] • Crop Combination Regions [1]	1

MA 1st Semester				
Course GG1C1: Geomorphology	Development of Geo-morphic Ideas	7	Fundamental Geomorphic Concepts, Concept of Uniformitarianism and Catastrophism, Recent Trend in Geomporphology.	3
	Geomorphic Process	9	Endogenetic and Exogenetic Processes, Study of slopes, slopes forming processes and Different forms of slopes	3
	Morphometric Analysis	4	Linear Aspects: Stream Ordering based on Horton and Strahlers; Bifurcations ratio	2
GG1C2:Climatology	Basic concepts of Weather, climate and atmosphere	4	1. Elements and characteristics of weather and climate 2. Origin and Development of Atmosphere 3. Layered structure and composition of Atmosphere	2

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Session: Even semester 2024

Subject: GEOGRAPHY
Name of the Teacher: DR. DILIP KUMAR DEKA
Methods to be applied: Lecture, illustration, demonstration, analytical and activity method, interaction and discussion.
Teaching Materials: Green Board, Chalk Pencil, Duster, Atlas, Toposheet, Maps, Globe, Charts, Models, Geographical tools, Book, Journal, Newspaper, Magazine, Laptop, and Projector.

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
SEMESTER II				
Course C4 GGRM 202T4: GEOGRAPHY OF INDIA (Theory)	1. Physical: Physiographic Divisions, soil and vegetation, climate (characteristics and classification)	6	• Physiographic Divisions of India and its characteristics [2] • Classification of Soil of India and its characteristics [1] • Classification of Vegetation of India and its characteristics [1] • Classification of Climate of India and its characteristics [2]	2
	2. Physical Geography of North East India.	6	• Physiographic Divisions of North-East India and its characteristics [2] • Classification of Soil of North-East India and its characteristics [1] • Classification of Vegetation of North-East India and its characteristics [1] • Classification of Climate of North-East India and its characteristics [2]	2
COURSE C4 GGRM 202P2: PRACTICAL ON THEMATIC CARTOGARPHY	1.Age- sex pyramid: Develop and Developin gcountries.	2	• Age- sex pyramid: Develop and developing countries. [2]	1

GE 2 **GGRM GE201BT6 : REGIONAL**	1. Problem Regions and Regional	10	• Concept of problem Regions and various regions in India [1]	4

DEVELOPMENT	Planning: Backward Regions and Regional Plans-Special Area Development Plans in India; DVC-The Success Story and the Failures.		• Concept of Regional Planning and its types [4] • Backward Regions and Development Plans [2] • Special Area Development and its plans [2] • DVC: The success story and failures [1]	
SEMESTER IV				
COURSE C8 **GGRM401T6 : ECONOMIC GEOGRAPHY (THEORY)**	1. Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel), Concept of Manufacturing Regions, Special Economic Zones and Technology Parks.	7	• Concept of Secondary Activities [1] • Cotton Textile Industries of India [1] • Iron and Steel Industries of India [2] • Concept of Manufacturing Regions [1] • Special economic zones [1] • Technological Parks [1]	2
Course C 9 **GGRM402T6: ENVIRONMENTAL GEOGRAPHY (Theory)**	1.Environmental Geography – Concept and Scope	2	• Concept of environmental geography, meaning and definition [1] • Nature and Scope of environmental geography [1]	1
	2.Environmental Problems in Tropical, Temperate and Polar Ecosystems	3	• Environmental Problems in Tropical Region [1] • Environmental Problems in Temperate Region [1] • Environmental Problems in Polar Region [1]	1
	3.Environmental Programmes and Policies – Global, National and Local levels		• Environmental Programmes: Global, national and Local Levels [2] • Environmental Policies: Global, national and Local Levels [2]	

GE 4 (6 C) **GGRM GE401AT6: INDUSTRIAL GEOGRAPHY**	1. Impact of Industrialization in India: Environmental; Social and Economic	4	• Concept of Industrialization [1] • Impact of industrialization in India Environmental; Social and Economic [3]	2
SEMESTER VI				
Course C 13	1. Paradigms in	8	• Various paradigms in	2

GGRM601T6: EVOLUTION OF GEOGRAPHICAL THOUGHT (Theory)	Geography		Geography [8]	
	2. Pre-Modern – Early Origins of Geographical Thinking with reference to the Classical and Medieval Philosophies.	18	• Pre-Modern: Early Origins of Geographical Thinking and the various school of thoughts [6] • Classical Origins of Geographical Thinking and the various school of thoughts [6] • Medieval Origins of Geographical Thinking and the various school of thoughts [6] •	4
	3. Modern – Evolution of Geographical Thinking and Disciplinary Trends in Germany, France, Britain, United States of America.	14	• Evolution of Geographical Thinking in the school of Germany [4] • Evolution of Geographical Thinking in the school of France [4] • Evolution of Geographical Thinking in the school of Britain [2] • Evolution of Geographical Thinking in the school of United States of America [4]	4
	4. Debates – Environmental Determinism and Possibilism, Systematic and Regional, Ideographic and Nomeothetic.	6	• Debates on environmental Determinism and Possibilism [2] • Debates on Systematic and Regional Geography [2] • Debates on Ideographic and Nomeothetic Geography [2]	2
	5. Trends – Quantitative Revolution and its Impact, Behaviouralism, Systems Approach, Radicalism, Feminism;	10	• Quantitative evolution and its Impact on Behaviouralism [2] • Study of the Systematic approach [2] • Radical school of Thought and Feminism [2] • Post Modern theories	4

	Towards Post Modernism – Changing Concept of Space in Geography, Future of Geography.		related to Geography: Concept of Space in Geography [2] • Future of Geography [2]	

MA 2nd Semester				
Course GG2C2:Geo-informatics	Fundamentals & Physics of Remote Sensing	7	Concept and scope of remote Sensing, Definitions, process and advantages and limitations, Concept of EMR, Atmospheric window, Interaction of EMR with matter, Spectral signature, energy intersections with earth surface features : Spectral reflectance curve, elements of visual image interpretation	3
GG2C3: Practical on Surveying and Spatial Pattern	Surveying by Dumpy's Level and Theodolite	4	Contouring by Dumpy's Level, Profile Leveling by Dumpy's Level	
GG2D2:Fundam-entals of Fluvial Geomorphology	Introduction to Fluvial Geomorphology	8	Meaning and evolution of fluvial geomorphology: relation between fluvial geomorphology and hydrology , modern methods and techniques in fluvial geomorphological studies , sedimentological techniques	2

	Drainage basin as a fluvial system	6	Inputs, and outputs in the basin, drainage basin as fundamental geomorphic unit, Run-off estimation in the basin, factors controlling run-off and types of run-off	2

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GARGAONCOLLEGE
TEACHING PLAN

Course: B. A.

Session: Odd semester, 2023

Subject: GEOGRAPHY

Name of the Teacher: MONURAMA PHUKON

Methods to be applied: Lecture, illustration, demonstration, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chalk Pencil, Duster, Atlas, Toposheet, Maps, Globe, Charts, Models, Geographical tools, Book, Journal, Newspaper, Magazine, Laptop, and Projector.

Paper Code/Title	Allotted Unit/Topic	No. of Classes Required	Detail of the topics to be taught & class required	No. of tutorials
SEMESTER I				
GEOMORPHOLOGY GGRC1	**Practical**	8	Topographical Map – Interpretation of Topographical map, Profile drawing (serial, superimposed, projected and composite), Transact chart b. Morphometric Analysis: Drainage ordering, basin area demarcation, drainage density, Bifurcation ratio.	2
	Introduction to Geomorphology	6	Geomorphology: Meaning, Definition, Nature and Scope. b. Fundamental Geomorphic Concepts. c. Introduction to Geomorphic Processes	2
Geomorphology And Oceanography MINGGR1	**Practical**	6	Practicals on Toposheet Interpretation, Profile Drawing, Stream Ordering, Bathymetric and Hypsometric Curve.	2

	Introduction to Geomorphology and Oceanography	8	Geomorphology: Meaning, Definition, Nature and Scope. b. Fundamental Geomorphic Concepts. c. Oceanography: Meaning Definition, Nature and Scope d. Ocean Bottom Relief Features	2
Physical Geography **GECGGR1A**	Introduction to Physical Geography	4	Physical Geography: Definition, Nature and Scope. b. Earth and its Components c. Interactions between Physical and Human Geography	
SEMESTERIII				
COURSE C6 GGRM302T6: REGIONAL GEOGRAPHY OF WORLD(THEORY)	1.Distribution of population of world	4	• World Population Distribution[1] • Factors influencing distribution of world population[2] • Pattern of World population distribution[1]	1
	2.Regional studies of Middle East and South East Asia and the Mediterranean region	18	• Regional Study of Middle East [6] • Regional Study of South East Asia [6] • Regional study of Mediterranean Region [6]	4

GE 3 **GGRM GE301BT6: RURAL DEVELOPMENT**	1.Defining Development: Inter-Dependence of Urban and Rural Sectors of the Economy; Need for Rural Development, Gandhian Approach of Rural Development	8	• Concept of Development, Concept of Rural Development, Meaning and Definition[2] • Interdependence of Urban and Rural Sectors of Economy[2] • Need of Rural Development with special reference to India [1] • Gandhian approach of Rural Development • [3]	2
	2. Rural Economic Base: Panchayati raj System, Agriculture and Allied Sectors, Seasonality and Need for Expanding Non-Farm Activities, Co-operatives, PURA.	8	• Pachayati Raj system [1] • Agriculture and allied Sectors [2] • Seasonal Employment [1] • Need for Expanding Non-Farm activities[2] • Co-operatives [1] • PURA[1]	2
	3.Provision of Services – Physical and Socio-Economic Access to Elementary Education and Primary Health Care and Micro credit	8	• Provision of Physical and Socio-Economic Access to Elementary Education[2] • Provision of Education[2] • Provision of Primary Health Care [2] • Provision of Micro Credit [2]	2

SEC1 301AP2:REGIONAL PLANNING AND DEVELOPMENT	1. Concept, Need and Types of regional Planning.	5	• Concept of Planning: Regional Planning, Meaning and Definition[1] • Need of	2
	2. Characteristics and Delineation of Planning Region.	4	Regional Planning[1] • Types of Regional Planning[3]	
			• Characteristics of Planning Region and its various determinants [1] • Delineation of Planning Regions [2]	1
	3. Regionalization of India for Planning (Agro Ecological Zones).	3	• Regionalization of India: Agro-Ecological Zones [3]	1
SEMESTERV				
COURSE C11 GGRM 501T4: REGIONAL PLANNINGAND DEVELOPMENT (THEORY)	1.Defination of Region, Evolution and Types of Regional Planning: Formal, Functional and planning Regions and Regional Planning, Need for Regional Planning, Types of Regional Planning	11	• Definition of Region, Meaning and Concept [1] • Evolution of Planning Regions [2] • Types of Regional Planning[6] • Need for regional Planning [2]	4

	2. Choice of a Region for Planning: Characteristics of an Ideal Planning Region; Delineation of Planning Region; Regionalization of India for Planning (Agro Ecological Zones)	13	• Choice of a Planning Area for Development [1] • Characteristics of an Ideal Planning Regions [2] • Delineation of Planning Region [4] • Planning Regions of India: Different Views [4] • Agro-Ecological Zones of India [2]	3
COURSE C12 GGRM502T4: POPULATION GEOGRAPHY (PRACTICAL)	1.Distributionof population a)India, Assam(by simple dot method)	1	• .Distribution of population a)India, Assam (by simple dot method) [1]	4
	2.Densityof population a)India and Assam(choropleth method)	1	• Density of population a)India and Assam (choropleth method)[1]	4
DSE 1 DSE 501BT6: ECONOMIC GEOGRAPHY	1. Secondary Activities–Cotton Textile Industry, Petro-Chemical Industry, Major Manufacturing Regions.	7	• Concept of Secondary activities[1] • Cotton Textile Industry of India [2] • Petro-Chemical Industries of India [2] • Major-Manufacturing Regions of India[2]	2

	2. Tertiary and Quaternary Activities – Modes of Transportation, Patterns of International Trade, and Information and Communication Technology Industry.	5	• Concept of Tertiary and Quaternary Activities[1] • Transportation patterns of International trade [2] • Information and Communication Technology Industry[2]	1

Course: M. A.
Session: Odd semester, 2023

GEOMORPHOLOGY GG1C1:	Morphometric analysis	4	Relief Aspects: Hypsometric analysis- Hypsometric curve and Integral, Altimetric analysis.	1
GEOGRAPHY OF RESOURCE AND ECONOMIC DEVELOPMENT GG1D2:	Geography of Economic Activity	6	a) Agriculture- Place of agriculture in global economy, agriculture systems of the world. b) Classification of industries: Resource base and footloose industries c) Industrial location theories-Weber, Hoover and Losch. d) Role of transport in resource utilization.	1

GARGAONCOLLEGE
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Session: Even semester 2024

Subject: GEOGRAPHY
Name of the Teacher: MONURAMA PHUKON
Methods to be applied: Lecture, illustration, demonstration, analytical and activity method, interaction and discussion.
Teaching Materials: Green Board, Chalk Pencil, Duster, Atlas, Toposheet, Maps, Globe, Charts, Models, Geographical tools, Book, Journal, Newspaper, Magazine, Laptop, and Projector.

Paper Code/Title	Allotted Unit/Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
SEMESTERII				
Climatology :GGRC2	Practical	6	4.1 Study of weather symbols and Interpretation of weather map. 4.2 Representation of climatic data: (a) Preparation of Climograph, Hythergraph and Ergograph and their interpretation (b) Preparation of rainfall variability map of Assam	2
Climatology And Biogeography MINGGR2	Practical	10	4.1 Interpretation of various weather symbols depicted on maps. 4.2 Preparation of rainfall-temperature graphs; Hythergraph, Climograph and Ergograph 4.3 Mapping of protected areas (National park, biosphere reserve and wildlife sanctuary) of India. Mapping of zoogeographic regions of the world. Mapping of Biodiversity hotspots of the world and India.	4
Fundamentals Of Economic Geography GECGGR2B	**Introduction to Resources**	3	2.1 Resource; Concept and Resource creating factors. 2.2 Classification and Types of resources. Functional Theory of Resources	
	Locational Theories	6	4.1 Agricultural (Von Thunen), 4.2 Industrial locations Theory (Weber and Losch). 4.3 A Case	

			Study on Agro based Industry; Location and Economic Analysis	
SEMESTERIV				
COURSE C8 GGRM401T6: ECONOMIC GEOGRAPHY (THEORY)	1.Introduction: Concept and classification of economic activity	3	• Concepts of Economy and the activities related to it, • Types of economic activity	
	2. Factors Affecting location of Economic Activity with special reference to Agriculture (Von Thunen theory), Industry (Weber's theory).	5	• Factors affecting location of Economic Activity: Agriculture • Von Thunen Agricultural Theory • Weber's Industrial Theory	2
	3. Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining.	9	• Primary activities: Meaning and Major Activities of India • Subsistence and Commercial Agriculture : Meaning, and difference between them • Forestry, Fishing and mining activities of India And North East India	3
GE 4 (6 C) GGRM GE401AT6: INDUSTRIAL GEOGRAPHY	1.Natureand Scope of Industrial Geography	3	• Concept of Industrial Geography, Meaning and its definition • Nature and Scope of Industrial Geography • Contemporary Relevance of Industrial Geography	1
	2. Types, Geographical	12	• Characteristic of Industries and its types	4

	Characteristics and Location of Industries (Weber's Theory): Small and Medium Industries, Heavy Industries: Coal and Iron based industries, Rural based Industries, Footloose Industry.		• Weber's Industrial Theory • Small, Medium and Heavy Industries • Coal and Iron Based Industries of the World and India • Rural based industries and foot loose industries	
SEMESTER VI				
DSE 4 (6 C) GGRM DSE 602BT6:SOCIAL GEOGRAPHY	1. Social Geography: Concept, Origin, Nature and Scope.	3	• Concept of Social Geography, Meaning and Definition • Origin of Social geography • Nature and Scope of Social Geography	1
	2. Peopling Process of India: Technology and Occupational Change; Migration.	6	• Peopling Process of India • Technology and Occupational Change and their contribution in the process of peopling • Migration, its determinants ,cause sand consequences	2

	3. Social Categories: Caste, Class, Religion, Race andGenderand their Spatial distribution.	12	• Concept of Social Categories • Caste, its various divisions, discrimination based on caste is mandits remedies • Class, types of classes in our society, advantages and disadvantages of class separation • Religions, types of religions their distribution in Indian and their social impacts • Race and racial delineation in India and their distribution, and concept of racial discrimination • Gender and concept and issues related with it	4
			With current relevance	
	4. Geographies of Welfare and Well being: Concept and Components – Healthcare, Housing and Education.	10	• Geography of Welfare and Wellbeing: Various Policies related to it and their impact on the population of India • Various components of Welfare and Wellbeing • Healthcare and its various policies • Housing and its various government policies • Education and the various policies in India	4
	5. Social Geographies of Inclusion and Exclusion, Slums, Gated Communities, Communal Conflicts and Crime.	8	• Social Geographies of Inclusion and exclusion • Concepts of slums and the slums of India • Gated Communities and Communal Conflicts and Crime	4

DSE 2 DSE601BT6: GEOGRAPHYOF TOURISM (Lecture)	1. Scope and Nature: Concepts and Issues, Tourism, Recreation and Leisure Inter-Relations; Geographical Parameters of Tourism by Robinson.	8	• Concept of Tourism • Scope and Nature of Tourism • Contemporary issues of Tourism • Concept of recreation and recreational hubs in India • Concept of Leisure and its interrelation with recreation and tourism • Geographical Parameters of tourism by Robinson	2
	2.Typeof Tourism: Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage	6	• Different Types of Tourism : Natural tourism, Cultural tourism, Medical Tourism, Pilgrimage Tourism	1
	3. Recent Trends of Tourism: International	8	• Recent Trends in Tourism: International Na regional • Domestic trends of	2
	and Regional; Domestic (India); Eco-Tourism, Sustainable Tourism, Meetings Incentives Conventions and Exhibitions (MICE)		Tourism in India, special reference to North East India • Concept of Eco-Tourism and Sustainable Tourism and their locations in India • Meetings Incentives, Conventions and Exhibitions(MICE)	

Course: M. A.
Session: Even semester,
2024

Paper Code/Title	Allotted Unit/Topic	No. of Classes Required	Detail of the topics to be taught & class required	No. of tutorials
GG2C1: SOCIAL GEOGRAPHY OF INDIA	An Introduction To Social Geography	8	a) Meaning, nature and scope of social geography; b) Growth and development of social geography; c) Development of social geography in India.	4
	Caste and Tribe In India	9	a) Origin of the caste system in India and their geographical patterning. b) The morphology of settlements of caste; caste in rural and urban neighborhoods; caste and clan territories. c) Tribes in India; their geographical distribution and their rural-urban composition	3
GG2D1: FUNDAMENTALS OF REGIONAL PLANNING	Regional Concept in Geography	10	a) concept and type of region , regionalization b) method for formal and functional regionalization c) Hierarchy of region	2

	Concept of Regional Planning	9	a) Concept and type of planning b) Historical Development of Regional Planning, principle, objectives and need of regional planning c) Geography and Regional Planning.	3

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TEACHING PLAN

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Session: Odd semester 2023

Subject: GEOGRAPHY

Name of the Teacher: DR.RITURAJ NEOG

Methods to be applied: Lecture, analytical and activity method, interaction, demonstration and discussion.

Teaching Materials: Green Board, Chalk Pencil, Maps, Charts, Atlas, Globe, Computer, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, Projector

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
GEOMORPHOLOGY (GGRC1)	3. Geomorphic Processes (Exogenetic) and Evolution of Landforms (Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial, and Coastal)	10	Process of Erosion and Depositions in Fluvial, Karst, Aeolian, Glacial, and Coastal landforms. Formation of different types of erosional and depositional landform, Fluvial landforms in different stages of fluvial cycle, Formation of different types Aeolian landforms by erosion and depositional activities of wind in different stages of Aeolian cycle, nature and pattern of erosion and depositional landforms in limestone region, Glacial process of erosion and deposition and its resultant landforms, coastal process and activities of waves and tides and its resultant landform in coastal regions.	2
	4. Practical	4	Slope Analysis – Wentworth's method and Smith's Method.	2

PHYSICAL GEOGRAPHY GECGGR1A	3. Atmosphere- Definition, composition, structure b. Temperature; Factors and Distribution Insolation, Heat Budget c. Air masses: source regions, classification and modifications d. Concept and types of fronts: Front genesis and Frontolysis	10	Origin of the Atmosphere, Layered structure and composition of the atmosphere, factor controlling the distribution of temperature, horizontal and vertical distribution of temperature, heat budget of the earth, concept and characteristics of air mass, source regions, classification of air mass , thermodynamic and mechanical modification of air mass, cocept and characteristics of fronts, types of fronts , Frontogenesis and Frontolysis	2
Disaster Management SEC106	1. Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification 2. Manmade disasters: Causes, Impact and Distribution	8	Concept of Hazard and Disasters, types and classification of disasters, Factor controlling risk and Vulnerability of disaster, Manmade disasters such as Intentional and unintentional disasters: Technological, Accidental disasters.	2

Regional Geography of the World GGRM302T6	1. Physiography, climate, soil and vegetation of Asia, Africa, Europe, North America	16	Physiographic division of Asia, Soil region of Asia, Climatic and Vegetation region of Asia, Physiographic division of North America, Soil region of North America, Climatic and Vegetation region of North America, Physiographic division of Europe, Soil region of North Europe, Climatic and Vegetation region of North Europe, Physiographic division of Africa, Soil region of North Africa, Climatic and Vegetation region of Africa	4
	1. Mineral resources and industrial development of the developed, developing and the underdevelop ed countries	8	Distribution and Production of Iron, Coal, Petroleum and Natural gas in the world and Major industrial development in developed, developing and the underdeveloped countries	2
Statistical methods in Geography GGRM303T6	1. Theoretical distribution: Probability and Normal distribution 2. Association and Correlation: Rank Correlation, Product Moment Correlation 3. Simple Regression, Residuals from regression	8	Concept and types of probability and its application, Correlation and its types, Karl Pearson method of Correlation, Spearman rank correlation, regression analysis, residual map form regression and difference between correlation and regression.	2
Regional Planning and Development GGRM501T4	1. Theories and Models for Regional Planning: Growth Pole Model of Perroux; Growth Centre Model	12	Growth Pole Model of Perroux; Growth Centre Model in Indian Context; Theory of Myrdal, Theory of Hirschman, Theory of Rostow and Friedmann; Concept of Village Cluster, application of growth pole and centre in regional development, criticism of growth pole and growth centre, application and criticism of	2

	in Indian Context; Myrdal, Hirschman, Rostow and Friedmann; Village Cluster		Rostow, Friedmann and Myrdal.	
	1. Changing Concept of Development, Concept of underdevelopment 2. Efficiency-Equity Debate	4	Concept of development and underdevelopment , changing concept of development, Efficiency-Equity Debate	1
Regional Planning And Development 501P2	Methods of regionalization: a) Simple ranking method b) Mean method c) Z- Score standardization.	3	Socio-economic regionalization by Simple ranking method, Mean method , Z- Score standardization	1

GARGAON COLLEGE
TEACHING PLAN
Course: B. A.
Session: Even semester 2024

Subject: GEOGRAPHY

Name of the Teacher: DR.RITUARAJ NEOG

Methods to be applied: Lecture, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chalk Pencil, Maps, Charts, Atlas, Globe, Computer, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/Title	**Allotted Unit/ Topic**	**No. of Class required**	**Detail of the topics to be taught & class required**	**No. of tutorials**
Climatology GGRC2	Atmospheric Temperature and Insolation (Atmosphere; Definition, Composition and structure 1.2 Temperature; factors, Distribution 1.3 Insolation, Heat budget, temperature inversion)	6	Origin of the Atmosphere, Layered structure and composition of the atmosphere, factor controlling the distribution of temperature, horizontal and vertical distribution of temperature, heat budget of the earth, Factor controlling insolation, latitudinal heat balance of the earth	2

Remote sensing and GIS GGRM403T4	Historical Development of remote sensing as a technology- Relevance of remote sensing in Geography. Concept and basics: Energy source, energy and radiation principles Energy interactions in the atmosphere and earth surface features. Remote sensing systems: platforms, sensors and radiations records	20	Historical Development of remote sensing as a technology- Relevance of remote sensing in Geography. Basic concept and principles of Remote sensing, EMR and atmospheric window, different laws associated with radiation, Energy interactions in the atmosphere and earth surface features. Concept of spatial, temporal and spectral resolution in remote sensing, types of remote sensing based on platform, energy source and spectral sensors. Types of space based, air based and ground based platforms in remote sensing, Active sensors and passive sensors, radiation records of sensor.	4
Remote sensing and GIS Practical GGRM403P2	1. GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure	4	Concept and Components of GIS, GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure, Difference between raster and vector GIS	2
GGRM602T4	Disaster Management		Concept of Hazard and Disasters, types and classification of disasters, Factor controlling risk and Vulnerability of disaster, Manmade disasters such as Intentional and unintentional disasters: Technological, Accidental disasters. Cause and impact of flood, earthquake, landslide, cyclone and tsunami disasters. Role of NIDM and NDMA in disaster management. Community based disaster management techniques in India. Techniques of pre-disaster, on disaster and post disaster.	
GGRM602T2	1. Disaster management based project work	4	Disaster Management based Project work	2

Course: M. A.
Session: Odd semester,
2023

Paper Code/Title	**Allotted Unit/ Topic**	**No. of Class required**	**Detail of the topics to be taught & class required**	**No. of tutorials**
Climatology GG1C2	Atmospheric Circulation (a) Atmosphere pressure, global pressure systems and wind belts and its impact (El-Niño, La –Nina) b) The Monsoon-its origin, mechanism and development: Indian monsoon)	10	Concept of Air pressure, relationship between temperature and air pressure, pressure distribution and global pressure belt of the earth, factor controlling pressure belts, relationship between air pressure and wind, permanent wind belts of the earth, Causes and consequences of El-Nino & La Nina, Origin and development of monsoon, mechanism of Indian monsoon, comparison between monsoon of south Asia and east Asia.	2
Practicals on Morphometric Techniques And Thematic Mapping GG1C3	Representation of Relief and Analysis	4	a) Preparation and analysis of relative relief maps based on Smith's method. b) Preparation and analysis of slope maps using Wentworth's method	1
GG1A1	Fundamentals And Application of Remote Sensing	8	a) Fundamentals of Remote Sensing, Elements of Remote sensing, Atmospheric window, Digital Image Processing, Elements of Image Interpretation, active and passive remote sensing, temporal, spectral and spatial resolution of remote sensing.	4

Course: M. A.
Session: Even Semester,
2024

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
Fundamentals of Geoinformatics GG2C2	**Platforms and Sensors**	10	a) Introduction: Sensor materials, Sensor System - Framing and Scanning System, Whiskbroom scanners, Push-broom scanners, Side Looking scanner b) Types and Characteristics of Sensor: Imaging and non-imaging sensors, Active and passive sensors, Resolution of Sensors, - Spectral, Spatial, Radiometric & Temporal c) Remote Sensor Platforms and Satellite Orbits: 10 2 Ground, Airborne and Space-borne Platforms, Geostationary, sun synchronous. d) Space Imaging Satellites: Early history of space imaging; Multispectral and Hyperspectral sensors, Radar, Lidar; Specification of some popular satellites – IRS, Landsat and SPOT series, ASTER; High resolution satellites – IKONOS, Cartosat, Quickbird, OrbView, GeoEye, WorldView; Other latest earth resource satellites.	2
	Digital Image Processing And Information Extraction from Satellite Images	10	Introduction: Definition of digital image, Source of Data, Image Pre-processing: Sources of Error in image data, Image Rectification and Registration, Resampling Techniques, Radiometric corrections b) Contrast Manipulation: Gray Level Thresholding, Level Slicing; Contrast Stretching – Linear and Nonlinear, Spatial filtering – Linear, Directional and Gradient Filters; Edge Enhancement and Fourier Analysis c) Ground Truthing: Ground Truth Collection for Image Classification	2

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GARGAON COLLEGE

TEACHING PLAN

Course: B.A./B.Sc. in Geography

Session: Odd Semester (July-December) 2023-24

Paper Code/ Title	Allotted Unit/ Topic	No. Of Class Required	Detail Of The Topics To Be Taught& Class Required	No. Of Tutorials
GEOMORPHOLOGY Major (Core) GGRC1	**Geomorphic Processes (Endogenetic)**	4	• Earth: Interior Structure and Isostasy • Plate Tectonics	2
	Geomorphic Processes (Exogenetic)	4	• Cycle of Erosion (Davis and Penck)	2
GEOMORPHOLOGY AND OCEANOGRAPHY Minor-I MINGGR1	**Geomorphic Processes (Endogenetic and Exogenetic)**	4	• Earth: Interior Structure and Isostasy	1
	Salinity, Waves, Tides and Currents	10	• Ocean Salinity, Temperature and their distribution • Ocean Waves: Definition and terms, Wave theories, Classification. • Tides-Causes, Types and Effects • Ocean currents- Formation and Effects	5
PHYSICAL GEOGRAPHY Generic Elective GECGGR1A	**Hydrosphere**	10	• Concept of Hydrological Cycle • Ocean Water Movement- Currents and Tides • Nature and formation of waves and tides. • Sea level changes: causes and consequences.	3
REGIONAL GEOGRAPHY OF THE WORLD (Core) GGRM302T6	**Distribution of population of the world**	5	• Population distribution: meaning, classification • Factors affecting distribution of population • Distribution of population all over the world	2
	Regional studies	6	• Regional studies of the Middle East and South east Asia and the Mediterranean region	2

RURAL DEVELOPMENT (Generic Elective) GGRM GE301BT6	**Rural Development**	5	• Defining Development • Inter-Dependence of Urban and Rural Sectors of the Economy • Need for Rural Development • Gandhian Approach of Rural Development.	1
	Approaches to Development	5	• Area Based Approach to Development: Drought Prone Programmes, PMOSY. Rural Area • Target Group Approach to Rural Development: SJSY, MNREGA, Jan Dhan Yojana and Rural" Connectivity.	
POPULATION GEOGRAPHY GGRM 502T4	**Population Demographics**	4	• Population Size, Distribution and Growth Determinants and Patterns; • Theories of Growth Malthusian Theory and Demographic Transition Theory.	3
	Population Dynamics	8	• Fertility, Mortality and Migration -Measures, Determinants and Implications.	2
	Population Composition	5	• Characteristics Age-Sex Composition; • Rural and Urban Composition; Literacy.	2
	Contemporary Issues	2	• Ageing of Population; Declining Sex Ratio; HIV/AIDS.	1
SETTLEMENT GEOGRAPHY GGRM DSE 501AT6	**Settlement**	4	• Concept, • Classification, • Distribution and • changing relationship with the environment	1
	Rural settlement	3	• Evolution, site and situational factors and patterns and types.	1
	Urban settlement	3	• Growth, functional classification of Towns	1
	Settlement	1	• Hierarchy of settlement.	0
	Theories	4	• Christaller's and August Losch Theory of Market Center	
AGRICULTURAL GEOGRAPHY GGRM DSE502BT6	**Theories and Models**	2	• Agricultural Land use model (Von Thuenen, modification and relevance)	1

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GARGAON COLLEGE
TEACHING PLAN
Course: M.A./M.Sc. in Geography
Session: Odd Semester (July-December) 2023-24

Paper Code/ Title	Allotted Unit/ Topic	No. Of Class Required	Detail Of The Topics To Be Taught& Class Required	No. Of Tutorials
GEOMORPHOLOGY GG1C1	**Fundamental Concepts in Geomorphology**	8	• System concept in geomorphology • Concept of Steady state and Dynamic Equilibrium • Geomorphic Thresholds.	3
	Morphometric Analysis	4	• Relief Aspects: Hypsometric analysis and Altimetric Analysis	3
CLIMATOLOGY GG1C2	**Basic concepts in heat, atmospheric temperature & Hydrological Cycle**	20	• Insolation, Heat balance and distribution of temperature. • Concept of hydrological cycle: factors controlling evaporation, condensation and precipitation transpiration, • Adiabatic process of temperature change: dry and moist adiabatic lapse rate and atmospheric condition.	10
GEOGRAPHY OF RESOURCES AND ECONOMIC DEVELOPMENT GG1D2	**Geography of Economic Development**	6	• Characteristics Development, Developed countries. of Economic 8 economy of and Developing. • Regional Disparities in terms of Development- causes and remedies • Globalization and Indian Economy	3

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TEACHING PLAN

Course: B.A./B.Sc. in Geography

Session: Even Semester (January-July) 2023-24

Subject: GEOGRAPHY
Name of the Teacher: REJINA BORAH
Methods to be applied: Lecture, globe, chart, analytical and activity method, peer questioning, interactionand group discussion.
Teaching Materials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/ Title	Allotted Unit/ Topic	No. Of Class Required	Detail Of The Topics To Be Taught& Class Required	No. Of Tutorials
CLIMATOLOGY Major (Core) GGRC2	**Atmospheric Moisture, weather and Climate**	6	• Evaporation, • Humidity, • Condensation, • Fog and Clouds, • Precipitation and Its types, • Atmospheric Stability and Instability	3
	Practical	6	• Study of Weather symbols • Interpretation of Weather symbols • Preparation of rainfall Variability map of Assam	3
CLIMATOLOGY AND BIOGEOGRAPHY Minor-I MINGGR2	**Introduction to Biogeography**	6	• Biomes and Biodiversity Hotspots of the World • Loss of Biodiversity and its Conservation	3
	Practical	8	• Interpretation of weather symbols depicted on maps, • Mapping of Protected areas, National Parks, Biosphere Reserve and Wildlife sanctuary of India and North east India, • Mapping of zoogeographic regions of the world, • Mapping of Biodiversity Hotspots of the World and India	5
FUNDAMENTALS OF ECONOMIC GEOGRAPHY	**Economic Activities**	6	• Effect of Natural environment on Economic activities,	3

Generic Elective GECGGR2B			• Classification of Economic activities, Primary, Secondary, Tertiary and Quaternary activities, • International Trade, • Von Thunen Theory of Agricultural Location, • Industrial Location theory of Weber	
ECONOMIC GEOGRAPHY (Core) GGRM401T6	**Primary Activities**	8	• Agriculture: Types, significance, distribution: India and world) • Forestry: Types, significance, distribution: India and world) • Fishing: Types, significance, distribution: India and world) • Mining: Types, significance, distribution: India and world)	2
ENVIRONMENTAL GEOGRAPHY (Core) GGRM402T6	**Human-environment Relationships**	3	• Historical Progression of Human environment relationships • Adaptation in Different Biomes	2
	Environmental Programmes and Policies	3	• Environmental Programmes and Policies of World, India and Local Levels • Environmental NGOs	2
INDUSTRIAL GEOGRAPHY (Generic Elective) GGRM GE401AT6	**Industrial Policies of India**	5	• Industrial policies of India: 1945-2018)	1
EVOLUTION OF GEOGRAPHICAL THOUGHT GGRM 601 T6	**Debates in Geography**	4	• Environmental Determinism - and Possibilism, • Regional and Systematic • Nomeothetic and Ideographic	3
	Trends in Geography	8	• Quantitative Revolution and - its Impact, • Behaviouralism, • Systems Approach, • Radicalism, • Feminism; • Towards Post Modernism Changing – • Concept of Space in Geography, • Future of Geography	2
POLITICAL GEOGRAPHY GGRM DSE 601BT6	**Electoral Geography**	6	• . Geography of Voting • Geographic Influences on Voting pattern • Geography of Representation • Gerrymandering	3
	Political Geography of Resource Conflicts	5	• Water Sharing Disputes, • Disputes and Conflicts Related to Forest Rights and Minerals	2

	Politics of Displacement	5	• Issues of relief, compensation and rehabilitation: with reference to Dams • Special Economic Zones	4

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GARGAON COLLEGE
TEACHING PLAN
Course: M.A./M.Sc. in Geography
Session: Even Semester (January-July) 2023-24

Subject: GEOGRAPHY
Name of the Teacher: REJINA BORAH
Methods to be applied: Lecture, globe, chart, analytical and activity method, peer questioning, interactionand group discussion.
Teaching Materials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/ Title	Allotted Unit/ Topic	No. Of Class Required	Detail Of The Topics To Be Taught& Class Required	No. Of Tutorials
SOCIAL GEOGRAPHY OF INDIA GG2C1	**Religions In India**	8	• Religions in India and their diversity; • A geographical analysis and historical perspective of religions in India. • Religious identity; its elements and its social expression	3
	Language In India	6	• Origin language; dialect. • Diffusion of language; language shift and its retention. • Languages of India and their spatial patterning and formation of linguistic states	3
PRACTICAL ON SURVEYING AND SPATIAL PATTERNS GG2C3	**Measures of Spatial pattern**	3	• Methods of regionalization: Ranking method, mean method and z-score standardization.	3
	Field Survey Method	10	• Basic properties of a schedule and questionnaire, • Preparation of household schedule for socio-economic survey • Methods of tabulation and organization of data., • Methods of interpretation of data.	5

FUNDAMENTALS OF REGIONAL PLANNING GG2D1	**Methods and Techniques Regional Planning**	6	• Methodology of Regional Planning. • Analytical Techniques of Regional Planning., • Procedural Techniques of Regional Planning.	3
	Regions for Planning	10	• Region and its evolution; Planning regions and its characteristics • Planning regions of India proposed by TCPO • Evolution, nature and scope of town planning with special reference to India, and Fundamentals of Town and Country planning	3

Dr. Dilip Kumar Deka
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Dept. of Geography
Gargaon College

GARGAON COLLEGE
TEACHING PLAN
Course: B. A.
Session: Odd semester 2023

Subject: GEOGRAPHY
Name of the Teacher: KAMAL DAS
Methods to be applied: Lecture, globe, chart, analytical and activity method, interaction and discussion.
Teaching Materials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
GG1C1: GEOMORPHOLOGY Core course (PG)	**Morpho mometric analysis**	**3**	Areal Aspects: Geometry of basin shape, Basin Perimeter, Length and Area, Stream frequency and Drainage density.	**3**
GG1C2: CLIMATOLOGY Core Course (PG)	Atmospheric processes	8	a) Air masses: source regions, classification and modifications b) Atmospheric disturbances: tropical and temperate cyclones c) Concept and types of fronts: Frontogenesis and Frontolysis	4
GG1D2: GEOGRAPHY OF RESOURCES AND ECONOMIC DEVELOPMENT (PG)	Utilization of Resources	4	a) Global distribution of mineral and power Resources. (iron, copper, aluminum, gold, coal, oil, natural gas, wind power and hydro power) b) Utilization pattern of mineral and power Resources. c) Role of Technology in Resource utilization.	2
GG1A1: APPLICATION OF REMOTE SENSING AND UNMANNED AERIAL VEHICLE IN GEO-SPATIAL ANALYSIS AEC Course (PG)	FUNDAMENTALS AND APPLICATION OF REMOTE SENSING	3	Application of remote sensing in the field of agriculture, forestry, urban planning, water resources and geology etc.	2
	INTRODUCTION TO UAV AND APPLICATIONS OF UAV	3	UAV applications in the field of agriculture, forestry, urban planning, water resources and geology etc.	2

Cartography301 T4 (UG)	Basic principles of surveying and their necessity in Geography : Verticaland horizontal controls	10	• Introduction to Basic principles of surveying and their necessity in Geography • Vertical and horizontal controls	5
REGIONAL GEOGRAPHY OF THE WORLD (UG)	Mineral Resource	5	Mineral resources and industrial development of the developed, developing, and the underdeveloped countries.	3
GGRM 502T4: POPULATION GEOGRAPHY (UG)	Population Geography	8	Defining the Field – Nature and Scope, Sources of Data with special reference to India (Census, Vital Statistical and NSS)	3
GGRM GE 301 BT6: RURAL DEVELOPMENT (UG)	Rural Development	12	Rural Economic Base: Panchayatraj System, Agriculture and Allied Sectors, Seasonality and Need for Expanding Non-Farm Activities, Co-operatives, PURA	6
SEC-1(Skill Enhancement Course) Disaster Management (UG)	Disaster	9	1. Disasters: Definition and Concepts, Hazards, Disasters, Risk and Vulnerability, Classification 2. Manmade disaster: Causes, Impact and Distribute	1
	Disaster in India	9	Disasters in India: Flood, Landslide, Drought, Earthquake and Tsunami, Cyclone: Causes, Impact and Distribution.	1
	Response and Mitigation to Disaster	9	Response to Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community Based Disaster Management, Do's and Don'ts During and Post Disaster.	1
GEC-1 A (Generic Elective Course) Physical Geography (UG)	Lithosphere and Biosphere	6	a. Earth: Interior, Structure, and Isostesy. b. Earth Movements: Folds and Faults (Types and causes) c. Earthquakes and Volcanoes	6
	Salinity, Waves, Tides and Currents	6	a. Tides – Causes, Types, and Effects b. Ocean currents – Formation and Effects.	7

C-1 (Major) Geomorphology (UG)	Geomorphic Processes (Exogenetic) and Evolution of Landforms	9	a. Exogenetic Processes – Weathering, Mass Wasting, b. Cycle of Erosion (Davis and Penck)	10

GARGAON COLLEGE
TEACHING PLAN
Course: B. A.
Session: Even semester 2024

Subject: GEOGRAPHY
Name of the Teacher: KAMAL DAS
Methods to be applied: Lecture, globe, chart, analytical and activity method, interaction and discussion.
Teaching Materials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, and Projector.

Paper Code/Title	**Allotted Unit/ Topic**	**No. of Class required**	**Detail of the topics to be taught & class required**	**No. of tutorials**
GG2C2: FUNDAMENTALS OF GEOINFORMATICS **(PG)**	Fundamentals of Geographic Information System	10	a) Basic Concepts: definition of GIS, Components of GIS, Areas of GIS application, Advantage and Limitation of GIS and GIS Data: Spatial and Attribute Data, Analog vs. Digital data, b) Information Organization and Data Structures: Raster and Vector data structures, advantages and disadvantages c) Creating GIS Database: GIS Software, file organization and formats, Rectification, Digitization and Map Composition d) Data Editing: Detecting and correcting errors, Reprojection, Transformation and Generalization, Edge matching and Rubber sheeting, Topology	2
GG2D2: FUNDAMENTALS OF FLUVIAL GEOMORPHOLOGY **(PG)**	Channel processes	8	a) Concept of grade, attainment of grade, channel equilibrium. b) Forces acting in channel, velocity distribution, flow types c) Hydraulic geometry analysis: at-a-station case and downstream case, relationship of water discharge with velocity, depth and width	4
	Channel patterns	8	a) Straight, meandering, and braided; development and causes of meandering; mechanics and causes of braiding. b) Channel changes in time and space.	4

			c) Misfit rivers and channel metamorphosis.	
GG2G2: CLIMATOLOGY AND OCEANOGRAPHY **(PG)**	Atmospheric Circulation	2	Air mass and fronts-types and characteristics and their influence on weather and Climate	1
GGRC2 Major (Core) Climatology (UG)	**Atmospheric pressure and winds**	13	2.1 Pressure belts, Planetary Winds, Pressure Gradient, General Circulation, Jet Streams, Monsoon 2.2 Concept of Airmass and Fronts, Cyclones and Anticyclones, Local winds	16
MINGGR2 (Minor) Climatology and Biogeography (UG)	**Atmospheric Pressure and Winds**	5	Pressure Belts and General Circulation, Jet Streams, Monsoon: Origin and Mechanisms	5
GECGGR2B, Generic Elective Course (GEC) Fundamentals of Economic Geography (UG)	**Introduction to Economic Geography**	3	Fundamental Concepts in Economic Geography	1
VAC3 , Value Added Courses Environmental Science (UG)	**Environmental Degradation**	9	2.1 Land degradation: Causes and consequences, 2.2 Exploration of surface and ground water, 2.3 Air pollution: anthropogenic nc causes, impact on health, agriculture, climate, hydrology	10
GGRM 403P2 : Remote Sensing and GIS (Practical) (UG)	**Remote Sensing and GIS**	1	1. Remote Sensing and GIS: Definition and Components, Development, Platforms and Types	
	Remote Sensing and GIS	2	2. Aerial Photography and Satellite Remote sensing: Principles, Types and Geometry of Aerial Photograph	
	Remote Sensing and GIS	1	GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure	

	Remote Sensing and GIS	1	Image Processing (Digital and Manual) and Data Analysis: Pre-Processing (Radiometric and Geometric Correction), Classification (Supervised and Unsupervised),	
	Remote Sensing and GIS	1	Interpretation and Application of Remote Sensing and GIS: Land use/ Land Cover, Urban Sprawl Analysis, Forest Monitoring.	
GGRM601T6: Evolution of Geographical Thought (Theory) (UG)	**Evolution of Geographical Thought**	13	Modern – Evolution of Geographical Thinking and Disciplinary Trends in Germany, France, Britain, United States of America	7
GGRM DSE 601BT6: Political Geography (UG)	**Political Geography**	4	Theories- (Heartland and Rimland)	2

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GARGAON COLLEGE
TEACHING PLAN
Course:B.A.
Session: Even semester, 2023-24

Subject:GEOGRAPHY
NameoftheTeacher:SUSMITA ROY KARMAKAR
Methods to be applied: Lecture, globe, chart, analytical and activity method, interactionanddiscussion.
TeachingMaterials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal,Newspaper,Magazine,Periodicals,Laptop,andProjector.

2nd Semester				
PaperCode/Title	**AllottedUnit/Topic**	**No.ofClassrequired**	**Detailofthetopicstobetaught&classrequired**	**No.oftutorials**
CLIMATOLOGY GGRC2 MAJOR(CORE)	**ATMOSPHERIC MOISTURE, WEATHER AND CLIMATE**	7	• Atmospheric Stability and Instability • Concept, Elements and factors of weather and climate, • Climatic classification: Koeppen and Thornthwaite.	3
ENVIRONMENTAL SCIENCE VAC3 VALUE ADDED COURSE	**ENVIRONMENTAL SCIENCE**	8	• Nature, Scope and importance of environmental Science. • Climate change, causes, societal impacts, adaptation • Sustainable development and living	1
	ENVIRONMENTAL DEGRADATION	8	• Land degradation: Causes and consequences. • Exploitation of surface and groundwater, • Air pollution: anthropogenic causes, impact on health, agriculture, climate, hydrology	1

CLIMATOLOGY AND BIOGEOGRAPHY (MINGGR2) Minor	**INTRODUCTION TO BIOGEOGRAPHY**	15	• Meaning, Scope and Significance of Biogeography • Ecology and Ecosystem, Structure and Functioning of Ecosystem • Biomes and Biodiversity hotspots of the world. • Loss of Biodiversity and its Conservation.	2
FUNDAMENTALS OF ECONOMIC GEOGRAPHY (GECGGR2B) Generic Elective Course (GEC)	**INTRODUCTION TO ECONOMIC GEOGRAPHY**	8	• Meaning, Nature and Scope, Economic Geography • Approaches to the study: Systematic and Spatial approaches, • Fundamental Concepts in Economic Geography	1
	LOCATIONAL THEORIES	5	• Agricultural (Von Thunen), • Industrial location Theory (Weber and Losch) • A Case Study on Agro-based Industry; Location and Economic Analysis	2

4th Semester

Paper Code/Title	**AllottedUnit/Topic**	**No.ofClassrequired**	**Detailofthetopicstobetaught& classrequired**	**No.oftutorials**
Course C8 GGRM401T6 ECONOMIC GEOGRAPHY (Theory)	**ECONOMIC GEOGRAPHY**	10	• Tertiary Activities: Transport, Trade and Services.	6
Course C 9 GGRM402T6 ENVIRONMENTAL GEOGRAPHY (Theory)	**ENVIRONMENTAL GEOGRAPHY**	12	• Ecosystem – Concept, Structure and Functions	6
GE 4 (6 C) GGRM GE401AT6 INDUSTRIAL GEOGRAPHY	**INDUSTRIAL GEOGRAPHY**	15	• Mega Industrial Complexes: National Capital Region, Mumbai-Pune Industrial Region, Bengaluru-Chennai Industrial Region and Chota Nagpur Industrial Region	7
		8	• Impact of Industrialisation in India: Environmental; Social and Economic	5

6th Semester				
Paper Code/Title	**AllottedUnit/Topic**	**No.ofClassrequired**	**Detailofthetopicstobetaught&classrequired**	**No. of tutorials**
DSE3 (6C) GGRM DSE 601 BT6	**POLITICAL GEOGRAPHY**	10	• Introduction: Concept, Nature and Scope	5
		12	• Electoral Geography- Geography of Voting, Geographic Influences on Voting Pattern, Geography of Representation, Gerrymandering	6
		12	• Political Geography of Resource Conflicts- Water sharing Disputes, Disputes and Conflicts Related to Forest Rights and Minerals	6

Course:M.A.
Session: Odd semester2023-24

Subject:GEOGRAPHY
NameoftheTeacher:SUSMITA ROY KARMAKAR
Methods to be applied: Lecture, globe, chart, analytical and activity method, interactionanddiscussion.
TeachingMaterials: Green Board, Chart, Globe, Chalk Pencil, Duster, Book, Journal,Newspaper,Magazine,Periodicals,Laptop,andProjector.

2nd Semester				
Paper Code/Title	**Allotted Unit/Topic**	**No.of Class required**	**Detailofthetopicstobetaught&classrequired**	**No.oftutorials**
GG2C3 PRACTICAL ON SURVEYING AND SPATIAL PATTERNS	**MEASURES OF SPATIAL PATTERN**	4	• Rank size relationship. • Density gradient analysis. • Method of regionalization: mean method	
GG2D1 FUNDAMENTALS OF REGIONAL PLANNING	**REGIONS FOR PLANNING**	8	• Region and its evolution; Planning regions and its characteristics • Planning regions of India proposed by TCPO • Evolution, nature and scope of town planning with special reference to India, and Fundamentals of Town and Country planning.	4
GG2G2: CLIMATOLOGY AND OCEANOGRAPHY	**ATMOSPHERIC CIRCULATION**	8	• Atmosphere Pressure, global pressure systems and general Atmospheric circulation • The Monsoon-its origin, mechanism and development, Indian monsoon, concepts of El- Nino and LA- NINA and its impact on India • Air mass and fronts-types and characteristics and their influence on weather and Climate	4

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