

Teaching Plan Academic Session: 2025-26
Department of Geography
Jagannath Barooah College, Jorhat

Name of the Teacher: Bijoy Ch. Ghosh

Semester: ODD & EVEN Semester of Undergraduate (NEP) and Post Graduate (CBCS)

Class/Semester	Title & Code of The Paper Allotted (Credit)	Method of Teaching	Teaching Material	Unit	Topic	Period/ Hours Required	Details of the Contents	Remarks / Books
Sem I (Odd)	GGRMJ-011 Introduction to the Planet Earth	Lecture, Notes, Discussion	Textbook, Diagrams, Models	III	Introduction to the Continents and Oceans	14	General account of physiography of each continent (except Antarctica) including prominent land forms, an overview on the population distribution, major industries and industrial areas.	
Sem I (Odd)	GGRMU-011 Geography of Environment and Management(MD) (Theory) Credit:3	Lecture, Notes, Discussion	Textbook, Diagrams, Models	III	Principals of Environmental Management	15	<ol style="list-style-type: none"> 1. Environment management principles- Precautionary principle, prevention principle, polluter pays principle, User pays principle, responsible principle. 2. Process of environmental management- Environmental policy, planning, implementation, checking and correction, management review. ISO 14001, ISO 14005, Eco Management Auditing scheme. 3. Clean technology undertaken in India- Clean energy initiative, CFL, energy efficient, solar heating, EV, 4R- Reduce, reuse, recycle and restore. 4. Environment management at individual/ family level. 5. Conservation movement and public participate in India and North East – Chipko movement, Silent valley, 	

							Narmada Bachao Aandolan, Appiko movement, Rally for Valley.	
Sem II (Even)	GGRMU-021 Geography of Environment and Management(MD) (Theory) Credit:3	Lecture, Notes, Discussion	Textbook, Diagrams, Models	III	Principals of Environmental Management	15	<ol style="list-style-type: none"> 1. Environment management principles- Precautionary principle, prevention principle, polluter pays principle, User pays principle, responsible principle. 2. Process of environmental management- Environmental policy, planning, implementation, checking and correction, management review. ISO 14001, ISO 14005, Eco Management Auditing scheme. 3. Clean technology undertaken in India- Clean energy initiative, CFL, energy efficient, solar heating, EV, 4R- Reduce, reuse, recycle and restore. 4. Environment management at individual/ family level. 5. Conservation movement and public participate in India and North East – Chipko movement, Silent valley, Narmada Bachao Aandolan, Appiko movement, Rally for Valley. 	
Sem III (Odd)	GGRMU-031 Geography of Environment and Management(MD) (Theory) Credit:3	Lecture, Notes, Discussion	Textbook, Diagrams, Models	III	Principals of Environmental Management	15	<ol style="list-style-type: none"> 1. Environment management principles- Precautionary principle, prevention principle, polluter pays principle, User pays principle, responsible principle. 2. Process of environmental management- Environmental policy, planning, implementation, checking and correction, management review. ISO 14001, ISO 14005, Eco Management Auditing scheme. 3. Clean technology undertaken in India- Clean energy initiative, CFL, energy 	

							<p>efficient, solar heating, EV, 4R- Reduce, reuse, recycle and restore.</p> <p>4. Environment management at individual/family level.</p> <p>5. Conservation movement and public participate in India and North East – Chipko movement, Silent valley, Narmada Bachao Aandolan, Appiko movement, Rally for Valley.</p> <p>.</p>	
Sem IV (Even)	GGRMI- 041 (Core) Population Geography (Theory) Credit:4	Lecture, Notes, Discussion	Textbook, Diagrams, Models	IV	Population Theories and Resource Relationship	12	<p>1. Theories of Population Growth: Malthusian Theory, Thomas Sadler's theory and Karl Marx theory of population.</p> <p>2. Demographic Transition Theory of Thompson and Notestein</p> <p>Population resource relationship & Impact of Population Growth on Environment</p>	
Sem IV (Even)	Quantitative Techniques in Geography	Lecture , Discussion & Problem solving Techniques	Charts, whiteboard and Models	IV	Introduction to the centographic methods:	12	Concept of mean centre of population; finding mean centre of population on map using population data; concept of mean and median centre of settlement.	
Sem V (Odd)	GGRMJ-051 Physical Geography II- Climatology and Biogeography (theory) Credit: 4	Lecture , Discussion & Map work	Charts, Models, whiteboard, diagrams	III	Winds and Climate change	14	Concept of atmospheric pressure and wind belts, vertical and horizontal distribution of atmospheric pressure, concept of pressure gradient and wind; genesis of monsoon and its circulation, factors and effects of global climate change.	
Sem V (Odd)	GGRMJ-052 Geography Of India (Theory) Credit: 4	Lecture & Discussion	Textbook, Diagrams, Models	III	Economics Activities	12	<p>1. Mineral Resources:- Distribution of Minerals and mineral belts; distribution and production of Iron-ore, Manganese, Copper & atomic minerals,</p> <p>2. Energy Resources – power generation and power grids, distribution and production of Conventional & Non-Conventional</p>	

							resources. 3. Agricultural Activities: Salient features of Indian Agriculture, Green revolution, Regional Distribution and Production of Rice, Wheat, Cotton, Tea & Oilseeds, emergence of new crops, land use changes.	
Sem V (Odd)	GGRMJ-052 Geography Of India (Theory) Credit: 4	Lecture & Discussion	Textbook, Diagrams, Models	IV	Unit IV: Industry, Trade and Transport	12	1. Industrial Development: Factors influencing industrial location, Industrial region, Distribution of Iron & Steel, Petrochemical and Information Technology, Emerging industries in globalised environment 2. Transport and Communication: Road, Railways, Waterways; Oil and gas pipelines. Factors associated with development of transport system; physical, economic, social cultural and institutional. 3. Trade: Salient features and Trends of India's Foreign Trade, Composition of Import and Export trade. Industrial policy of India and North East India after 1990.	
Sem VI (Even)	GGRMJ-061 Evolution of Geographical Thought (Theory) Credit:4	Lecture & Discussion	Textbook, Diagrams, Models	III	Paradigms, Debates & Dichotomy in Geography	12	1. Concept of paradigm, Kuhn's Paradigm Shift Theory 2. Dualism of Physical Geography versus Human Geography, General Geography versus Regional Geography, Historical Geography versus Contemporary Geography Concept of Areal Differentiation, Locational Analysis, Exceptionalism and Explanations in Geography	

PG Sem 1 (Odd)	PGGRC-102 Human Geography (Theory) Credit :4	Lecture , Discussion & Notes	Textbook, Diagrams, Models	III	Unit-III Population Geography	12	<ol style="list-style-type: none"> 1. Population Geography in the historical Perspective 2. Population growth , components, and determinants of population growth, population distribution of the worlds 3. Internal and international migration and associated problems. 4. Population theories Population–resource relationship, overpopulation, under population and 5. Optimum population. 	
PG Sem 1 (Odd)	PGGRC-103(Core) Morphometric Study and Thematic Mapping (Practical) Credit: 4	Practical, Demonstration	Practical Notebook, whiteboard and charts	V	Representation of climatic data	10	<ol style="list-style-type: none"> 1. Preparation of rainfall variability map 2. Preparation of equipluve map 	
PG Sem 1 (Odd)	PGGRD-101 Social, Political and Regional Concepts in Geography (Theory) Credit :4	Lecture , Discussion & Notes	Textbook, Diagrams, Models	IV	Unit: IV Theories in Political Geography	12	<ol style="list-style-type: none"> 1. Geostrategic theories of Ratzel, Hausofer, Kjellen, Mahan, Mackinder, Spykman and Cohen. 2. Contemporary reflection on Theories. 3. Geopolitical problems of South Asia. 	
PG Sem 1 (Odd)	PGGRG-101(GE) Regional Geography Of India (Theory) Credit: 4	Lecture, Map Study & Discussion	Lecture, PPT, models	III	Regional Geography Of India	12	<ol style="list-style-type: none"> 1. Cultural setting: racial and ethnic diversities, tribal areas, population Issues. 2. Settlement: Types, patterns and morphology of rural settlements. 3. Urbanization in India, urban sprawls, slums and associated problems. 	
PG Sem II (Even)	PGGRC-201(Core) Economic Geography (Theory) Credit: 4	Lecture, Discussion, notes &Maps	Textbook, Diagrams, Models	III	Geography of Economic Development	12	<ol style="list-style-type: none"> 1. Concept of Economic development and its changing nature 2. Pattern of Economic Development at global level 	

PG Sem II (Even)	PGGRC-201(Core) Economic Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook, Diagrams and Models	IV	Critical Analysis of location theories	12	1. Critical analysis of Weber, Hoover, Losch, Isard and Von Thunen	
PG Sem II (Even)	PGGRD-201 (DSE) Environmental Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook and Diagrams	II	Major Environmental Issues and Challenges at global and regional level	12	1. Introduction to the major environmental problems at global level 2. Causes, types and effects of environmental pollution, need of preservation of the environment 3. Environmental pollution in a spatial context	
PG III Sem (Odd)	PGGRC-302 (Core) Research Methodology (Theory) Credit: 4	Lecture, Discussion, notes	Textbook, PPT, Problem solving techniques	II	Research Problems	12	Formulation of research problem and hypothesis	
PG III Sem (Odd)	PGGRD-301-C (DSE) Political Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook and Diagrams,	III	Political Geography	12	Nation, State, nation-State and nation building, ecumene, core-periphery and capitals, frontiers, boundaries and border zones, buffer zones and regional identity.	
PG III Sem (Odd)	PGGRD-301-C (DSE) Political Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook and Diagrams,	V	Electoral studies in geographic perspective	12	Place of electoral studies in political geography; approaches to the study of geography of elections; geography of representation and Gerrymandering.	
PG III Sem (Odd)	PGGRD-303-C Political Geography (Practical) Credit: 4	Demonstration, lecture, Charts	Textbook, PPT, Diagrams, and Practical Notebook	II	Analysis of shapes of states	12	1. Different types of Shape of States. 2. Calculation of Shape Index by Chorley-Haggett method and Boyce-Clarke method	
PG III Sem (Odd)	PGGRD-303-C Political Geography (Practical)	Demonstration, lecture, Charts	Textbook, PPT, Diagrams,	IV	Analysis of voting behaviour	12	1. Voting Pattern Studies. 2. Voting Trend Studies. 3. Opinion Poll Studies	

	Credit: 4		and Practical Notebook					
PG IV Sem (Even)	PGGRC-401 (Core) Population Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook and Diagrams,	V	Population Theories	12	. Population theories by Marx, Sadler, Ricardo and Dumont 2. Theories of population migration by Ravenstein, Lee, Hagerstrand and Wolpert 3. The significance of the above theories	
PG IV Sem (Even)	PGGRC-401 (Core) Political Geography (Theory) Credit: 4	Lecture, Discussion, notes & Maps	Textbook and Diagrams,	II	Political Issues of India	12	1. India's relation with neighbors- land and sea & their associated issues. 2. India's Relation with world and regional associations (SAARC, ASEAN, BRICS, BIMSTEC). 3. India and Geopolitics of Indian Ocean.	
PG IV Sem (Even)	PGGRC-403(C) Project Report/Dissertation	Lecture, Discussion	Field Visit, Practical Work	I		12		