

**TEACHING PLAN :: for ACADEMIC YEAR-**  
**(Odd Semester)**

Name: **Minakshi Phookan Hazarika**  
Course: **Degree**

Department: **Geography**  
Programme: **Major**

Semester: **Odd Semester** (July - December)  
Class Allotted : **13 Classes (per six day cycle)**

<b>Paper-Unit: Theme (1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
<b>101-II</b> <i>Introduction to Geomorphology</i>	<b>1)</b> Weathering & Mass Wasting	Background of geography providing the basis for weathering, types, agents of weathering & Erosion.	Oral & visual	<b>4</b>
	<b>2)</b> Cycle of Erosion	Concept, the process and the agents.		<b>3</b>
	<b>3)</b> Davis & Penck Cycle of Erosion	WM Davis & Walter Penck's views on the cycle of erosion		<b>3</b>
<b>102</b> <i>Cartographic Techniques Practical</i>	<b>4)</b> Interpretation of Topographical Maps	Interpretation of Mountains		<b>4</b>
		Difference of Contours & drainage distribution pattern in plain and mountain areas		<b>4</b>
		Transact Chart		<b>3</b>
<b>303-I</b> <i>Environmental Geography</i>	<b>1)</b> Meaning & Scope of Environmental Geography, Man – Environment relationship in historical Perspective	Meaning & Relevance of Environment in today's world from the past.	Presentation of Slides with OHP & LCD Oral & presentation of diagrams, Preparation of Charts and maps. (theoretical approach)	<b>7</b>
	<b>2)</b> Env degradation, conservation – deforestation, desertification, and pollution	World's position in these aspects & how to balance between development and conservation		<b>6</b>
	<b>3)</b> Env Impact Assessment and management, Approaches to Env management, Disaster & Disaster Management	EIA Study, Approaches, & Disaster Management		<b>5</b>
	<b>4)</b> Global & Regional Env Programmes, functions of UNEP & UNDP	Global & Regional Env Programmes		<b>6</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>

<b>507-II:</b> Regional Concept & Planning	1) Concept & Types of Regions, Methods of Regionalization	Explanation of the concept of Region & Regionalization Methods	<b>Oral</b>	<b>4</b>
	2) Concept of Regional Planning: Its Relevance, development & problems	Regional Planning	Oral & Charts	<b>4</b>
	3) Concept of Planning Regions with special reference to India	Planning Regions  Env Planning in India Sustainable Development	Charts OHP Diagrams	<b>4</b>
	4) Environmental Planning & Regional Issues			<b>4</b>
	5) Regional Planning & Sustainable Development			<b>3</b>
	<b>Geographical aspects of planning in Japan Population, industry &amp; national plans</b>	Development in Japan	Lecture cum demonstration	<b>4</b>
<b>506-II:</b> Practical	<b>1. Map of Planning Regions of India 2. Sengupta's Scheme 3. Land Use Map of Assam</b>		Cartographic Technique	<b>4</b>

### **TEACHING PLAN :: for ACADEMIC YEAR-**

Name: **Minakshi Phookan Hazarika**  
Course: **Degree**

Department: **Geography**  
Programme: **Major**

Semester: **Even Semester** (Jan-June)  
Class Allotted: **14** Classes (per six day cycle)

<b>Paper-Unit:</b> <i>Theme(1)</i>	<b>Course Content</b> <b>(2)</b>	<b>Key Aspect</b> <b>(3)</b>	<b>Teaching Method</b> <b>(4)</b>	<b>Classes Required</b> <b>(5)</b>
<b>201-II</b> <i>Human Geography</i>	1. Global Population Study from Geographical Perspective.	Population Growth: Components & Determinants	Oral & Visual and use of OHP	<b>5</b>
		Population Distribution		<b>3</b>
		Demographic Transition Theory		<b>3</b>
		Migration		<b>3</b>
	2. Geography of Settlement	Trend & Spatial pattern of Urbanization		<b>3</b>
<b>202</b> <i>Thematic Cartography Practical</i>	1. Thematic Mapping Techniques	Properties, uses and limitations of Thematic Mapping		<b>5</b>
		Choropleth Mapping of Aerial Data		<b>4</b>
<b>403-II</b> <i>Industrial Geography</i>	1. Classification of Industries	Bases & classification accordingly	Presentation of Slides with OHP & LCD	<b>4</b>
	2. Factors of Industrial Location	Factors		Oral & presentation of diagrams,

	<b>3. Weber &amp; Losch's Theory</b>	Theories explaining industrial location	Preparation of Charts and maps. (theoretical approach)	<b>6</b>
	<b>5) Tourism as an Industry, Problems &amp; Prospects of Tourism in India.</b>	Problems		<b>2</b>
<b>607-II: Population Geography</b>	6) Introduction to Population Geography		<b>Oral</b>	<b>4</b>
	7) Population Growth, density, distribution in India & the states		Oral & Charts	<b>4</b>
	8) Urbanization & Its trend in India		Charts OHP Diagrams	<b>4</b>
	9) Urban settlement & types of towns & cities			<b>4</b>
	10) Races & Tribes in India			
	11) Cultural Geography			<b>3</b>
Australia & New Zealand	<b>1. Physiography, soil, climate. 2. Natual vegetation. 3. population &amp; development</b>		Lecture, OHP & LCD	<b>4</b>

Name: **Minakshi Phookan Hazarika**

Department: **Geography**

Semester: **Annual** (June - February )

Course: **Higher Secondary**

Programme: **Practical**

Class Allotted : **04 Classes (per six day cycle)**

<b>Paper-Unit: Theme (1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
Paper II	Practical		Illustration on Board	2
HS Ist year	History of Map making	History, Directions	How to Draw	3
	Weather Map	Interpretaion	Data made available	3
	Toposheet	„	Interpretation	3
	Profile Drawing	Using scale to draw	With contours	2

<b>Paper-Unit: Theme (1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
Paper II	Practical		Illustration on Board	2
HS IInd Year	Simple Bar Diagram	Importance, Directions	How to Draw	3
	Literacy Map by Shade Method	Interpretaion	Data made available	3
	Mulitple Bar Diagram	„	Interpretation	3
	Temperature & Rainfall Graphy	Using scale to draw	„	2

Name: **Minakshi Phookan Hazarika**

Department: **Geography**

Semester: **Odd Semester** (June-Feb)

Course: **PG**

Programme: **MA/MSc.**

Class Allotted: **06 Classes** (one hour each per six day circle)

<b>Paper-Unit: Theme(1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
<i>Paper 103 Environment Geography</i>	<b>1. Meaning &amp; Scope of Env Geography</b>	Meaning...& its scope	<b>Lecture Need of Env awareness Slides presentation &amp; lecture</b>	<b>2</b>
	<b>2. Environment Management: Its concept &amp; necessity</b>	Concept & Necessity		<b>2</b>
	<b>3. Approaches to Env Management &amp; Env Impact Assessment</b>	Conservative & Preservative App & EIA		<b>4</b>
	<b>4. Global &amp; Regional Env Programmes &amp; Policies</b>	Global & India;s env laws & Policies	<b>Slides presentation &amp; lecture</b>	<b>5</b>
Paper: 303 Special Paper: Regional Planning Part I Unit I Regional Concept in Geography	<b>1. Conceptual &amp; Theoretical framework of Region: Merits &amp; Limitations for application to Regional Planning &amp; development</b>	Theoretical aspects of planning Types of Regions & methods of regionalization Hierarchy	<b>Lecture ,, ,,</b>	<b>4</b>
	<b>2. Types of Regions &amp; Regionalization</b>			<b>5</b>
	<b>3. Regions in the Context of Planning &amp; Hierarchy of Regions.</b>			<b>3</b>
Unit III Methods & Techniques of Regional Planning	<b>4. Methodology of Regional Planning</b>	<b>Methods &amp; Techniques</b>	<b>Lecture &amp; Illustration</b>	<b>2</b>
	<b>5. Analytical Techniques of Reg Pl</b>	<b>8 Analytical Techniques</b>	<b>,,</b>	<b>4</b>
	<b>6. Procedural ,, ,, ,,</b>	<b>4 Procedural ,,,</b>	<b>,,</b>	<b>3</b>
Unit V Regions for Planning	<b>7. Region and Its evolution</b>	<b>History</b>	<b>,,</b>	<b>2</b>
	<b>8. Planning Regions &amp; Its Characteristics</b>	<b>Characteristics of Planning Reg</b>	<b>,,</b>	<b>3</b>
	<b>9. Planning Regions as proposed by TCPO, India</b>	<b>TCPO</b>	<b>,,</b>	<b>2</b>

Name: **Minakshi Phookan Hazarika**  
 Course: **PG**

Department: **Geography**  
 Programme: **MA/MSc.**

Semester: **Even Semester** (Jan-June)  
 Class Allotted: **06 Classes** (one hour each per six day circle)

<b>Paper-Unit: Theme(1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>
201 Unit V: Cultural Geography	<b>1. Definition, scope and development of Cultural Geography</b>	Meaning, scope & development	<b>Lecture &amp; Demonstration</b> ” ” & OHP
	<b>5. Themes &amp; Concepts of Cultural geography, Cultural regions, cultural ecology, cultural integration, cultural landscape.</b>	Themes – cultural diffusion, integration,	
	<b>6. Man, society &amp; cultura, Region as a cultural entity</b>		
403: Special Paper on Regional Planning Part II Unit I:Basis of Regionalization	<b>1. Physcial, social &amp; economic basis of regions of India</b>	Basis of regions	<b>Lecture &amp; Demonstration</b> ” ” & OHP
	<b>2. Special Purpose regions – river valley and metropolitan regions</b>	Special purpose regions Its need for such regions	
	<b>3. Need of planning for special purpose regions</b>		
Unit II: Planning Processes	<b>4. Sectoral, temporal, spatial dimensions of planning</b>	Sectoral, temporal & spatial concepts Multi-regional planning, India Indicators of development & their data sources	<b>Lecture &amp; Demonstration</b> ” ” & OHP
	<b>5. Planning for a regions development and multi regional planning in India</b>		
	<b>6. Indicators of development and their data sources, measuring levels of development and disparities in Indian context</b>		
Unit III: Regional development Strategies	<b>7. Concentration vs dispersal</b>	<b>Two opposite tendencies operating in space</b>	<b>Lecture &amp; Demonstration</b> ” ” & OHP
	<b>8. Plans of developed and developing countries</b>	<b>Netherlands, Israel &amp; India plans</b>	
	<b>9. Regional plans of India</b>	<b>Other regional plans of India</b>	

<p>Paper VI Practical on Regional Planning UnitII: Preparation of a Field Study Report</p>	<p><b>10.</b> Preparation of a Land Use Map of the Area surveyed <b>11.</b> Preparation of a Blue Print of the Area to be developed <b>12.</b> Preparation of a Survey Schedule for land use</p>	<p><b>To collect map from the study area To make blue print How to prepare a schedule, data coding, analysis, tabulation and interpretation and writing of report</b></p>	<p><b>Involves field work and several classroom discussions and monitoring</b></p>	
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Signature of Teacher  
Minakshi Phookan Hazarika  
Department of Geography  
Dt: 04-08-2016

## TEACHING PLAN :: for ACADEMIC YEAR-2015-16

Name: *Abhinav Prakash Mahanta*  
Course: *Degree*

Department: *Geography*  
Programme: *Major*

Semester: *Odd*  
Class Allotted: *14*

*Semester:* (July-December 2015)  
*Classes* (per six day circle)

<b>Paper-Unit: Theme (1)</b>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
<b>101-3:</b> <i>perspectives in Geography</i>	1. History of Geography	Informal Background	Oral & visual	5
	2. Development of Geography	Ancient, Medieval, Modern characters		10
	3. Recent Trend in Geography	Post-modern increment on modern Geog.		6
<b>101-4:</b> <i>Introduction to Geomorphology</i>	1. Geological History of the Earth and Geological Time Scale	Evolution of Earth environment & life	Oral with presentation of diagrams, Preparation of Charts and maps. (theoretical approach)	11
<b>301-2:</b> <i>Humidity and Precipitation</i>	1. Atmospheric moisture — humidity, evaporation, condensation; fogs and clouds — characteristics and classification	Mechanisms of each feature		7
	2. Concept of hydrological cycle — types of precipitation, world pattern of rainfall distribution.	Impact of Heat on water		4
	3. Airmass and Fronts — concept, classification and properties	Impact of Heat and moisture on air		8
	4. Atmospheric disturbances and process of development of tropical and temperate cyclones	Sudden change of atmospheric condition		4
<b>301-3:</b> <i>Classification of Climate</i>	1. Basis of Koppen's Classification, its characteristics and related plants and animals	Rainfall effectiveness		3
	2. Basis of Thornthwait's Classification: Distribution and its characteristics	Atmospheric Heat and Moisture		2
	3. Classification of Indian Climate and their related plants and animals	Impact of Climate on life		2
	4. Climatic changes and recent Issues: Impact upon human activities	Man-induced changes of climatic condition		Illustration
<b>502-1:</b> <i>Flow line &amp; Cartographic Study</i>	1. Traffic Flow (b) Isochronic Cartograms	Conversion of frequency and time into length scale		Cartographic Method
	2. Mean Centre of Gravity	Spatial application of Mean concept	Statistical Method	5

(1)	(2)	(3)	(4)	(5)
<b>503-1:</b> <i>Regional Geography of Asia</i>	1. Physiography, climate, soil and vegetation	Regional context	Explanation and mapping	8
	2. Mineral resources and industrial development			3
	3. Distribution of population			2
	4. Regional studies of Middle East and South East Asia			3
<b>508-2:</b> <i>Network Analysis</i>	1. Transport Network analysis – Alpha and Beta index	Measurement on geometric aspects of Network	Cartographic Method	4

Name: *Abhinav Prakash Mahanta*

Department: *Geography*

Semester: *Odd Semester* (July-December 2015)

Course: *PG*

Programme: *MA/MSc*

Class Allotted: **03 Classes** (one hour each per six day circle)

Paper-Unit: Theme (1)	Course Content (2)	Key Aspect (3)	Teaching Method (4)	Classes Required (5)
<b>102-5:</b> <i>Soil Geography</i>	1. Formation of Soil- Processes and Classification of soil	Pedogenesis	Illustrative explanation	6
	2. Soils of India, Northeast India and Assam	Regional approach to pedogeny		4
<b>103-2:</b> <i>Ecosystem in context to Development</i>	1. Concept and types of ecosystem; functioning of and energy flow in Ecosystem	System Study		4
	2. Biogeochemical cycle and Biosphere as an ecosystem	System Study		3
	3. Environment and development: Concept of environment and Development; Sustainable Development concept	Concept of Sustainance		3
<b>301-2:</b> <i>Dualism in Geography</i>	1. Systematic and Regional Geography	Dichotomy		Illustrative explanation
	2. Physical and Regional Geography		2	
	3. Systematic Geography and Systematic Science		2	



Name: *Abhinav Prakash Mahanta*Department: **Geography**Semester: *Even Semester* (January-June 2016)Course: *Degree*Programme: **Major**Class Allotted: **18 Classes** (per six day circle)

<b>Paper-Unit:</b> <i>Theme (1)</i>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
<b>201-3:</b> <i>Biogeography</i>	1. Definition, Scope and significance of Biogeography	Organic components of soil	Explanation, Mapping and Diagrammatic representation	<b>4</b>
	2. World Distribution of plants and its relation to soil, climate and human activities	Causes of Spatial inequalities		<b>9</b>
	3. World Distribution of animals plants and its relation to vegetation, climate and human activities	Causes of Spatial inequalities; Regionalization		<b>7</b>
	4. Soil: Soil forming Processes, classification & distribution, Soil Horizon and profile; Soil Erosion and Conservation, Major Soil types of India and Assam.	1. Pedogeny 2. Soil productivity		<b>10</b>
<b>402-2:</b> <i>Thematic mapping</i>	1. Preparation of Maps showing geographical Themes: Soil, Industries, population, minerals, forest, agriculture etc. of India.	1. Concept of Thematic Map 2. Cartographic techniques	Cartographic devices	<b>8</b>
	2. Preparation of Maps showing geographical Themes: Soil, population, minerals, forest etc. of Assam.			<b>4</b>
<b>403-3:</b> <i>Transport Geography</i>	1. Transport as a factor of Resource Utilization, Environmental and socio-economic factors affecting transport growth	Transport as Infrastructure of development	Geographical Explanations with Cartographic support	<b>4</b>
	2. Means of transport: land, water and their relative importances under different geo-economic conditions.	Inherent Relative advantages of each transport Means		<b>7</b>
	3. Coordination of Transport ,	Geometry and functionability		<b>6</b>
	4. Network analysis	Transcontinental trade		<b>5</b>
	5. Major trade routes of the world			<b>8</b>
<b>602-2:</b> <i>Map Projection</i>	1. Cylindrical Projections : Simple cylindrical cylindrical, Cylindrical Equalarea, Gall's, and Mercator's.	Mathematical devices	Carographic	<b>4+2</b>
	2. Conical Projection: with one and two Std. Parallels, Bonne's, polyconic			<b>4</b>
<b>606-2:</b> <i>Statistical Data Representation</i>	1. Location Quotient Analysis	Spatial Statistics	Cartographic	<b>4</b>
	2. Lorenz curve	Inequality Measure		<b>4</b>
<b>607-1:</b> <i>Geographic Thoughts</i>	1. Development of Geography- Classical, Medieval period.	Components added in each age	Interpretation of effects of Environment on Human activities	<b>6</b>
	2. Age of Explorations and discovery.			<b>6</b>
	3. Development of Modern Geography: contributions of Humboldt and Ritter			<b>10</b>

(1)	(2)	(3)	(4)	(5)
<b>607-2:</b> <i>Quantitative Methods</i>	1. Quantitative methods, application in geography	Method, application	Illustration	4
	2. Central Tendency: mean, median, mode	Statistical Practice and Geographical application	Statistical device + field illustration	8
	3. Deviation Measures: mean deviation, standard deviation and quartile deviation			4
	4. Correlation and regression			10
	5. Sampling and Its application in Geographical studies	Logic and techniques of Sampling practices	Illustration	8
	6. Lorenz curve and Location Quotient	Locational advantage	Suppliment to practical works	2
	7. Near Neighbour Analysis	Measure for Spatial Pattern		2
	8. Index Number: Concept, Type, Methods and Application	Concept of Spatial Average	Illustration	2

Name: **Abhinav Prakash Mahanta**

Department: **Geography**

Semester: **Even..Semester** (January-June 2016)

Course: **PG**

Programme: **MA/MSc**

Class Allotted: **03 Classes** (one hour each per six day circle)

<b>Paper-Unit:</b> <i>Theme (1)</i>	<b>Course Content (2)</b>	<b>Key Aspect (3)</b>	<b>Teaching Method (4)</b>	<b>Classes Required (5)</b>
<b>207-5:</b> <i>Transport Geography</i>	1. Role of Transport on resource utilization	Transport as Infrastructure of development	Illustrative explanation	3
	2. Co-ordination of Transport	Optimum use of Inherent advantages of each transport Means		3
	3. India's Transport System; rail, road, air, IWT	Multimodal Transport system		4
<b>413-1:</b> <i>Physical Basis of India</i>	1. Physiographic Framework and Drainage system	Geology and climatic background	Explanation and mapping	<b>6 (4+2)</b>
	2. Indian Monsoon, cyclones, western disturbances flood and droughts	Regional approach		3
	3. Soil and Vegetation			3
<b>414-3:</b> Data Processing & Data Explanation	1. Editing and Coading	Reasoning and presentation	Explanation With Examples	3
	2. Classification and tabulation			3
	3. Analysis and type of Analysis			4

Date: **30<sup>th</sup> June 2016**

( **Abhinav Prakash Mahanta** )

Signature of the Teacher:

**TEACHING PLAN**  
**[ Under CBCS (2016 enrollments) & Semester System (2014/15 enrollments) ]**

**Name of the teacher: SADIQUR RAHMAN**

**Department: Geography, JB College, Jorhat.**

**Course: Paper-101 (CBCS)**

**Semester: I<sup>st</sup> SEM CORE**

**Classes: 2 classes/six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
101 Unit-I	Theories in Geomorphology	a) Wegener's Continental Drift Theory and b) Plate Tectonic Theory. c) Interior of the earth: d) Seismological evidences; e) Earthquakes and f) Volcanoes	Lecture  Interaction with students  Display of relevant Diagrams	2 3 2 1 1 2

\* Syllabus of 2<sup>nd</sup> Semester not allotted (as on 20<sup>th</sup> August,2016)

**Course: Paper-101 (CBCS)**

**Semester: I<sup>st</sup> SEM GENERIC ELECTIVE**

**Classes: 1 classes/six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
101 Unit-I	Paper-101 DISASTER MANAGEMENT	III. Response and Mitigation to Disasters a) Mitigation and Preparedness, NDMA and NIDM; b) Indigenous knowledge and Community-based Disaster Management; (During and Post Disasters Do's Don'ts) c) Act of Disaster Management	-Lecture -Interaction with students -Display of relevant Diagrams	3 5 3

**UNDER SEMESTER SYSTER (Non-CBCS)**  
**(2014 & 2015 enrollments)**

**MAJOR Stream**

**Course: Major - 303**

**Semester: III**

**Classes: 2 theory and 1 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-303	Ecology and Ecosystem	1. Meaning, scope and aims of ecology, type of ecology, ecological concepts and principles.	Lecture	4
Unit-II		2. Ecosystem- types, structures, functioning, productivity and stability of ecosystem.	Interaction with students	3
Environmental Geography		3. Concept of Biodiversity – threats to Biodiversity and Biodiversity preservation.	Display of relevant diagrams	3
And Economic Geography (PART-I)		4. Conflict of environment vs. development (as problem): Sustainable development concept (as solution).		2

**Course: MAJOR - 401**

**Semester: IV**

**Classes: 02 classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-401	Unit-II Pattern of Human adaptation, mankind and Settlement	1. Human adaptation to various geographical conditions	Lecture	5
HUMAN GEOGRAPHY		i) Plateaus–Gonds and Bhils of Central India, Khasis of Meghalaya Plateau ii) Nagas of the hills of North East India	Use of white board	1
		2. Human adaptation in the floodplain regions with special reference to the Brahmaputra and the Ganga Plains	Interaction with students	2
		3. Human adaptation in cold region and hot regions	Use of PowerPoint	2
		4. Human development–concept and measurement		2
		5. Evolution of man–classification and spatial distribution of mankind and their physical and social profiles		2

**Course: Major - 505****Semester: V****Classes: 2 theory and 2 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-505  POLITICAL GEOGRAPHY AND GEOPOLITICAL ISSUES	Unit-II Geopolitical Issues	Global strategic views–Mackinder, Global strategic views–Spykman and Global strategic views–Mahan Geopolitical settings of India: International boundaries of India and related issues: Geopolitics of Indian Ocean North-South dialogue: SAARC and ASEAN in the new international order Geopolitical situation of North east India	Lecture Use of white board Interaction with students	2 2 2 1 3 1 1 2 1

**Course: Major – 506 (Practicals)****Semester: VI**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Unit-I Political geography		1.Shape Index of Different States 2. Maps of Global strategic Models a)Map of mackinder’s Heartland Theory b)Map of Spykman’s Rim Land Theory c)Map of ASEAN & SAARC d)Map, of india showing the international Boundaries	Lecture Display of photographs Interaction with students Visual presentation	4

**Course: Major - 603****Semester: VI****Classes: 2 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-603	REGIONAL GEOGRAPHY OF INDIA (PART-II)  UNIT-I AGRICULTURE,	1.Agriculture: salient features of Indian agriculture: irrigation: sources–multipurpose river valley projects; major crops—rice, wheat, sugarcane, cotton, jute, tea and coffee—production and spatial distribution. Growth of agriculture during the plan	Lecture  Interaction with students	2 3 4

	INDUSTRIES AND TRANSPORT	periods — Green Revolution, White Revolution and blue revolution 2. Industries: iron & steel, textiles and chemicals—their growth and development industrial regions of India. New industrial policy of India, industrial development during the five year plans; tourism industry	Display of relevant Maps	4
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**Course: Major - 605**

**Semester: VI**

**Classes: 1 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-605	REGIONAL GEOGRAPHY OF THE WORLD (PART-II)	Unit-I Africa 1. Physiography, climate, soil, vegetation 2. Natural resources of the continent 3. Spatial distribution of population	Lecture	4
			Interaction with students	2
			Display of relevant Maps	2

**NON MAJOR Stream**

**Course: Core - 201**

**Semester: III**

**Classes: 3 theory and 2 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG 201	Unit - III: Bio-geography	a. Definition, scope and significance of bio-geography. b. Factors influencing world distribution of plants and animals. c. Major floristic regions of the world and their characteristics.	Lecture	2
			Interaction with students	3
			Display of relevant Maps	4

**Course: Core - 301****Semester: III****Classes: 3 theory and 2 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG 301	Unit - I: Human Geography	a. Nature and Scope of Human Geography; man-environment relationship under different ecological settings. b. Classification and Spatial distribution of mankind and their physical and social profile including India. c. Population growth and distribution; Migration-causes and consequences. d. Origin and growth of human settlement, types of settlement and their characteristics; functional classification of towns.	Lecture	2
			Interaction with students	3
			Display of relevant Maps	4
				4

**Course: Core - 401****Semester: III****Classes: 3 theory and 2 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
	Unit - II: North East India	a) North east India-major physiographic regions, climate, soil and natural vegetation. b) Major mineral and power resources, transport and communication. c) Economic problems of north east India and Assam.	Lecture	2
				2
			Interaction with students	3
			Display of relevant Maps	2

**Course: Core - 501****Semester: V****Classes: 1 No class allotted for this semester per week**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
	Measures of Mean and Dispersion	a) Measures of central tendency-Mean, median and mode; mean centre of population. b) Measures of dispersions-mean deviation and	Lecture	2
				2
			White board and	2

GGRG 501		standard deviation. c) Measures of relationship-scattered diagram, coefficient of correlation and regression.	marker display  Display of relevant Maps	3 4
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**Course: Core - 601**

**Semester: V**

**Classes: No class allotted for this semester**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
	Asia	a) Asia-Physical features, drainage, climate, soil and natural vegetation. b) Resource base-agriculture, mineral and power. c) Industries, trade and commerce. d) Population growth and distribution.	Lecture  Interaction with students  Display of relevant Maps	3 3 4 3



## TEACHING PLAN (Post Graduation)

Name of the teacher: SADIQUR RAHMAN

Department: Geography

**Course: Post Graduate**

**Semester: I**

**Classes: 3 class per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper-II: CLIMATOLOGY AND BIO- GEOGRAPHY	Unit-V : Soil Geography (Since Aug 2016 onwards)	(a) Formation of soil-processes and classification of soil. (c) Soils of India. North-east India and Assam.	Lecture	3 5 4
Paper-III: ENVIRONMENTAL GEOGRAPHY	UNIT-IV: Environmental Issues (15 marks)	a)Global environmental problems: types and extent of environmental problems with special reference to North east India b)Environmental pollution: factors, types and effects of environmental pollution. c)Major regions of the world affected by environmental pollution.	Interaction with students  Display of relevant Videos and documentaries	

**Course: Post Graduate**

**Semester: II**

**Classes: 2 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper VI: Social, Political and Regional Concept in Geography.	Unit III: Theoretical basis of political Geography	a. Nature, scope and significance of Political Geography: A Historical Review of Development of Political Geography; Approaches to the study of Political Geography. b. Geographical perspective on the formation of state and nation; core and periphery; frontiers and boundaries. c. Concept of geo-politics and its application.	Lecture  Interaction with students  Display of relevant Maps	5 4 5 3
	Unit –IV: Theories in Political	a. Geo-strategic theory of Ratzel, Houshefer. Kjelen, Mahan,		8 2

	Geography	Mackinder, Spykman and Cohen. b. Contemporary Reflections on theories. c. Geo-political problems of South Asia.		2
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**Course: Post Graduate**

**Semester: III**

**Classes: 1 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper IX Unit V	Historical Development in Geography	1) Classification in Geography – Greeks, Romans contributions 2) Medieval Geography- Arabs and Prince Henry, Vasco da Gama, Columbus 3) Modern Geography – Humboldt and Ritter.	Lecture  Interaction with students  Display of relevant Maps	4  4  4

**Course: Post Graduate**

**Semester: III (Special Paper-Political Geography)**

**Classes: 2 classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper IX Unit IV	Colonialism, Federalism, Conflict and Cooperation	a) Colonialism, decolonization and neocolonialism b) Federalism and other forms of governments c) The changing patterns of world power perspectives, conflicts and cooperation.	Lecture  Interaction with students	4  4
Unit V	Geography of Elections	a) Place of Electoral studies in political geography b) Approaches to the study of geography of elections c) Geographical influences in voting behavior.	Display of relevant Maps	6  3

**Course: Post Graduate****Semester: IV Sem****Classes: 01 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper XIII	Regional Geography of India	Resource base of the Country a) Mineral and Power resources b) Agricultural resources- problems and prospects. c) Transport and Communications.	Lecture	3
			Interaction with students	3
			Display of relevant Maps	3

**Course: Post Graduate****Semester: IV (Spl Ppr-Political Geography)****Classes: 2 class per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper XV	Political geography of India  India-its internal problems and external relations	Political geography of India a) Historical evolution of Indian political structure b) Federal india – patterns of language and religion. c) Electoral studies of india-patterns of political parties and electoral structures- lok sabha elections.  India-its internal problems and external relations a) Interstate issues – insurgency in border states and conflict resolution b) India’s borders and associated problems. c) India’s relations with the neighbours and the world.	Lecture	4
			Interaction with students	3
			Display of relevant Maps	5
				5
				4

**( SADIQUR RAHMAN )**

## TEACHING PLAN (Under CBCS) 2016-17

**Name of the teacher :** GAURAB BORTHAKUR

**Department:** Geography

**Course: Major – 1<sup>st</sup> Semester CORE (Under CBCS)**

**Paper:** 101

**Classes:** 1 classes per six days cycle

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRC-201 Unit-II	<b>Theories and concepts in Geomorphology</b>	<b>Endogenic processes</b>  1. Earth movement  2. Orogenic and Epeirogenic movement  3. Folding, Faulting and associated landforms	a) Lecture b) Interaction with students c) Display of relevant Diagrams d) Assignment	10

**Course: Major –1<sup>st</sup> Semester CORE - PRACTICAL (Under CBCS) Paper: 102**

**Classes:** 1 classes per six days cycle

Paper / Unit	Course content	Key aspects	Teaching methods	Classes req
GGRE-102 Unit-IV	<b>Cartographic Techniques</b>  <b>PRACTICAL</b>	<b>Interpretation of Topographical maps and Slope/Relief analysis :</b>  1. Slope and Relief analysis 2. Wentworth's Method 3. Smith's Method	a) Lecture b) Interaction with students c) Display of relevant Maps and Instruments d) Laboratory works	08

## TEACHING PLAN ( Under Semester System)

Name of the teacher: GAURAB BORTHAKUR

Department: GEOGRAPHY

**PRACTICAL : Major-302**

**Semester- III**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
<b>GGRM-302</b> Unit-I  Practical	Toposheet study and profile drawing	1) <u>Interpretation of Survey of India Toposheets:</u>  (a) Interpretation of toposheet covering a Hilly/Coastal and a Plain Area of India in respect of i) Relief ii) Drainage iii) Settlement iv) Vegetation v) Communication pattern (b) Preparation of Transact Chart and its interpretation.  2) <u>Drawing of Serial, Superimposed, Projected and Composite profiles and their interpretation.</u>	Lecture  Interaction with students  Display of relevant Diagrams	6       4

**Course: Major - 403**

**Semester: IV**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
:GGRM-403: Unit-II	ECONOMIC GEOGRAPHY (PART-II)	Unit-I Industrial Geography 2. Major industries of the world: Iron and steel, Cotton textile and Chemical group. 3. Industrial regions of the world: USA, Japan and India.	-Lecture -Interaction with students -Display of relevant diagrams. -Use of Powerpoint	4    4

**Course: MAJOR - 501**

**Semester: V**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-501 REGIONAL GEOGRAPHY OF INDIA (PART-I)	Unit-I Physical Geography of India	1. India: Geological structure and Physiographic framework.	Lecture	6
		2. Climate and Drainage system.	Use of white board	4
		3. Soil and vegetation – their types and spatial distribution.	Interaction with students  Use of PowerPoint	4

**Course: Major ( PRACTICAL ) - 505**

**Semester: V**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
:GGRM-504:  PRACTICAL	(Slope Analysis and Block Diagrams)	Unit-I Slope Analysis 1. Went Worth's method 2. Smith's Method.	Lecture Use of Cartographic and Practicals Tools	4  4

**Course: Major – 505**

**Semester: V**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-505 POLITICAL GEOGRAPHY AND GEOPOLITICAL ISSUES	Unit-I Political Geography	1. Definition, nature, scope and subject matter— approaches to the study of political geography: Political Geography and Geopolitics 2. States—formation, location, shape and size: Nation—core areas, capitals 3. Boundaries and frontiers, borderlands, buffer states, landlocked states and shatter belts: Functions and classification of international boundaries: difference between boundaries and frontiers	- Lecture - Display of photographs -Chalk & Board -Visual presentation	4  4  3

**Course: Major - 603**

**Semester: VI**

**Classes: 2 theory classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRM-603 REGIONAL GEOGRAPHY OF INDIA (PART-II)	Unit-I Agriculture, industries and transport	2. Industries: iron & steel, textiles and chemicals—their growth and development industrial regions of India. New industrial policy of India, industrial development during the five year plans; tourism industry	Lecture  Interaction with students  Display of relevant Maps	2 3 4  4

**Course: Core - 101****Semesters: I**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG-101: PHYSICAL GEOGRAPHY (PART-I)	Unit-III Oceanography	<ol style="list-style-type: none"> <li>1. Introduction to ocean floor topography</li> <li>2. Salinity and composition of sea water</li> <li>3. Ocean currents: Atlantic, Pacific and Indian Ocean</li> <li>4. Ocean deposits</li> </ol>	<ul style="list-style-type: none"> <li>-Lecture</li> <li>-Interaction with students</li> <li>-Display of relevant Maps</li> </ul>	<p>3</p> <p>2</p> <p>3</p> <p>2</p>

**Course: Core - 201****Semester: I**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG-201  PHYSICAL GEOGRAPHY (PART-II)	Unit-IV Soil Study	<ol style="list-style-type: none"> <li>1. Soil: Definition: soil forming processes</li> <li>2. Classification and distribution of soil, soil erosion and conservation</li> <li>3. Major soil types with special reference to India and Assam</li> </ol>	<ul style="list-style-type: none"> <li>-Lecture</li> <li>-Interaction with students</li> <li>-Display of relevant Maps</li> </ul>	<p>3</p> <p>3</p> <p>3</p>

**Course: Core - 301****Semester: III**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
:GGRG-301: HUMAN AND POPULATION GEOGRAPHY	Unit-II Population Geography	<ol style="list-style-type: none"> <li>3. Types of settlement: pattern of rural settlement; functional classification of towns.</li> </ol>	<ul style="list-style-type: none"> <li>-Lecture</li> <li>-Interaction with students</li> <li>-Display of relevant Maps</li> </ul>	6



**Course: Core - 401****Semester: III**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG-401 REGIONAL GEOGRAPHY OF INDIA	Unit-I Physical Framework	1. India: Introduction: Geology and Physical divisions 2. Drainage system and climate 3. Soil and Natural vegetation	-Lecture	4
			-Interaction with students	4
			-Display of relevant Maps	4

**Course: Core - 501****Semester: III****Classes: 3 theory and 2 practical classes per six days cycle**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
GGRG-501:  ECONOMIC GEOGRAPHY	Unit-II Industry and Agriculture:	2. World distribution of rice, wheat, tea coffee, cotton, jute and rubber.	Lecture	2
			Interaction with students	2
			Display of relevant Maps	3
				2

**Course: Core - 602****Semester: VI**

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
:GGRG-602: PRACTICAL  UNIT I & II	Thematic mapping & Field Report	Unit-I Thematic Map 1. Political Map of Asia — South East Asia, Middle East, South Asia. 2. Thematic Map of India — Map of India showing the International boundaries of neighbouring countries  Unit-II Field Report	-Lecture	4
			-White board and marker display	4
			-Display of relevant Maps -Field Visit, Data ----- Collection, Tabulation , Presentation in Report form.	2

## TEACHING PLAN (Post Graduate Classes)

**Name of the teacher:** GAURAB BORTHAKUR

**Department:** Geography

**Course:** Post Graduate

**Semester:** I

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper-IV: PRACTICALS ON MORPHOMETRIC TECHNIQUES AND THEMATIC MAPPING	UNIT-I: Representation of relief and analysis	a) Profile drawing and interpretation	Lecture	4
		b) Preparation and analysis of relative relief maps based on Smith's method	Interaction with students	4
		c) Preparation and analysis of slope map using Wentworth's method	Display of relevant Videos and documentaries	4
		d) Block diagram: one point and two point perspectives		4

**Course:** Post Graduate

**Semester:** II

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper VI: Social, Political and Regional Concept in Geography.	Unit III: Theoretical basis of political Geography	A) Nature, Scope and Significance of Political Geography: A historical review of Development of Political Geography: Approaches to the Study of Political geography.	Lecture	5
		B) Geographical perspective on the formation of State and Nation: Core and Periphery: Frontiers and Boundaries	Interaction with students	4
		C) Concepts of Geopolitics and its Application.	Display of relevant Maps	4

**Course:** Post Graduate

**Semester:** II

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper VII GEOGRAPHY OF RESOURCES AND ECONOMIC DEVELOPMENT	UNIT-IV: Geography of Economic Activities	A) Agriculture-Place of Agriculture in global economy, agriculture system of the world. B) Manufacturing- Patterns and Problems of Manufacturing in the World. C) Industrial location theories- Weber, Hoover, and Losch.	Lecture	4
			Interaction with students	3
				4
			Display of relevant Maps	

**Course:** Post Graduate

**Semester:** II

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper VIII  PRACTICAL ON SURVEYING AND SPATIAL PATTERNS	UNIT III FIELD SURVEY METHOD	A) Basic properties of Schedule and Questionnaires B) Preparation of Household Schedule for Socio-Economic survey C) Methods of Tabulation and organization of Data D) Methods of Interpretation of Data	Lecture	3
			Interaction with students	4
				4
			Display of relevant Maps	3

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper - XI SPECIAL PAPER- POLITICAL GEOGRAPHY (PART -I)	SPECIAL PAPER- POLITICAL GEOGRAPHY (PART -I)	<p><b><u>Unit -1 Conceptual Basis-</u></b> 1) Nature. Scope and subject matter. 2) Recent development and approaches. 3) Major schools of thoughts.</p> <p><b><u>Unit-II Geographic Element and State</u></b> A) Introduction B) Physical human and economic elements of state. C) Political geography and environment interface. -.</p> <p><b><u>Unit -III Themes in Political Geography</u></b> A)State, nation, nation-state and nation-building. B)Frontiers, boundaries and borders zones. C)Core-periphery and capitals.</p>	<p>Lecture</p> <p>Interaction with students</p> <p>Display of relevant Maps</p>	<p>2</p> <p>2</p> <p>2</p> <p>1</p> <p>3</p> <p>3</p> <p>4</p> <p>4</p> <p>3</p>
Paper XII	PROJECT & FIELD WORK		Field Visit, Data Collection, Tabulation & Presentation in Report form.	10 days

**Course:** Post Graduate

**Semester:** IV (Spl Ppr-Political Geography)

**Classes:** 2 class per six days cycle

Paper / Unit	Course content	Key aspects	Teaching methods	Classes required
Paper XV SPECIAL PAPER: POLITICAL GEOGRAPHY (PART-I)	SPECIAL PAPER: POLITICAL GEOGRAPHY (PART-II)	<b>Unit-IV: India: Its internal Problems and External Relations</b> 1. Interstate Issues. Insurgency in Border States and conflict Resolution 2. India's Borders ( Land and Sea) and associated problems. 5. India's relations with its neighbors and the World. <b>Unit V: Political Geography of North East India.</b> 1. Politico-Geographic Evolution of North Eastern States.. 2. Ethnicity and Autonomy movements in North East India. 3. Problems of Migration. Insurgency and Border disputes in North East India.	Lecture  Interaction with students  Display of relevant Maps	3 3 3 3 4
Paper XVI SPECIAL PAPER: POLITICAL GEOGRAPHY (PART-II)	PRACTICAL & PROJECT REPORT	1)a)Classification of States on the basis of area,Size, G-Scale) b) Comparison of Pre and Post Independents Map of india c) study of Core Area of India and its Expansion d) Ranking of states on the basis of some selected indicators like— Area, Population, Economic production and the strength of Armed forces 2) Project Report on Special Paper	Lecture Interation with student Laboratory work  Field Visit, Data Collection,Tabulation & Presentation in Report form	3 3 3 10 days

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