Department of Geography

Programme Specific Outcome (BA/B.Sc. in Geography)

The programme specific outcome of the syllabus prescribed for the major students of Geography is mentioned below:

- PSO1: The programme will enrich and enlighten the students with fundamental geographical understanding to chase higher education in the discipline.
- PSO2: The programme will prepare the students with adequate knowledge applicability and problem solving capacities.
- PSO3: The programme will provide encouragement among students to pursue a career in Geoinformatics in future.
- PSO4: The programme deals with project work and preparation of dissertation which will promote research work and research profession among the students.
- PSO5: The programme will build a sound geographical base in the students which will immensely help them while preparing for any competitive exams.
- PSO6: The programme deals extensively on environment and man-nature relationship. This will create a sense of awareness and social responsibility among the students towards the environment.

Most importantly, the programme will help students to become better and responsible citizens of the nation.

COURSE OUTCOME

BA in Geography (Honours) syllabus (CBCS)

1st Semester

Paper Name: Geomorphology Paper Code: GGY - HC – 1016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Geomorphology:	and
will be able to:	Nature,	Understan
	ScopeandSignificance	d

• The paper will introduce	Unit II: Structure and	Remember
the students about the	characteristics of the earth's	and
physical aspect of the	crustandinterior	Understan
subject Geography.		d
• The students will learn	Unit III: Forces of landform	Remember
about the different	development: Endogenetic	Understan
branches of	forces (folding	d and
concents learned will help	faulting earthquakes and	Analysis
students to observe and	volcanoes) and exogenetic	7 mary 515
understand the different	forces	
landforms critically.	(weathering erosion and	
• The paper will help the	(weatherning, crossofi and	
students in exams like –	Linit IV: Forth Movemente:	Analysis
NET/SLET/ UPSC and	Continental Drift Theory	Analysis
other competitive exams.	Loostaay Mountain	and Appry
	huilding: views of Holmos	
	building: views of Hollies	
	and Köber, Platetectomics.	TT 1 /
	Unit V: Concept of Cycleof	Understan
	Erosion: Davis and Penck,	d, Analysis
	Landform	and Apply
	development under Fluvial,	
	Aeolian and	
	Glacialconditions	
After the completion of	Practical	Analysis
this course, the students	Unit I: Study of	and Apply
will be able to:	Topographical Maps:	
• The students will learn	Topographical map content	
• The students will learn various cartographic	and	
techniques for	numbering system, the	
representing different	generalinterpretationoftopos	
relief profiles.	heetsinrespectofphysicalcha	
• The students will be able	racteristics.	
to identify different	Unit II: Profile Drawing	Analysis
geomorphological	(serial,	and Apply
teatures from toposheets	superimposed, projected and c	
and interpretation from	omposite	
geographical	Unit III: Preparation of	Analysis
perspectives.	Slope Map / Relative Relief	and Apply
• The paper will help the	Map: Wentworth's method	
students to identify	and	

common rocks and their	Smith's method.	
characteristics.	Unit IV: Delineation of	Analysis
	drainage basin and drainage	and Apply
	network, construction of	
	cross and	
	long profiles, stream	
	ordering by Horton	
	andStrahler'smethod	
	Unit V: Interpretation of	Analysis
	Geological map and	and Apply
	Construction of cross –	
	section (Two	
	geological maps including	
	one with interruptions)	
	showing different	
	sedimentarybeds.	

Paper Name: Cartographic Techniques Paper Code: GGY-HC-1026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit:1 Cartography –	and
will be able to:	Meaning, Development	Understan
	(Traditional and Modern	d
• The students will acquire	Cartography) and	
about cartography map	Importance of Cartography	
characteristics, map design	in Geography.	
and map layout.	Unit:2 II Shape and size of	Remember
• The paper will be useful	the earth, coordinate system	and
for the students in terms of	(latitude and longitude)	Understan
surveying an area and		d
learning the basic	Unit III: Maps: Types, scale	Remember
associated with surveying	and content, representation	,Understan
• The students will	of point, line and area in	d and
understand the need of	maps	Analysis
quantification in	Unit IV: Map Projections:	Remember
Geography and learn	Concept of Map Projection,	,Understan

important quantitative methods involved in geographic data analysis.	Classification of Map Projections; Choice ofmapprojection. Unit V: Thematic mapping: Concept and types	d and Analysis Remember ,Understan d and Analysis
 After the completion of this course, the students will be able to: This paper will provide the students to undertake survey exercises in a 	Practical Unit I: Construction of graphical scale (linear, diagonal and comparative); conversion of map scale	Analysis and Apply
 survey excluses in a geographical area and apply different cartographic techniques to map the same. Learning map projections is an integral part of map making and this paper will enable the students to gain insight about various map projection techniques. The paper deals with 	Unit II: Construction of graticules of Zenithal Polar Gnomonic and Stereographic, Simple Conical with one standard parallel, Bonne's conical, Gall's Stereographic Cylindrical along with their properties, uses and limitations.	Analysis and Apply
representing socio- economic data in the form of maps which will be useful for the students in their project work.	Unit III: Preparation of thematic maps (choropleth, isopleth and pie diagram) for representing various physical geographic data.	Analysis and Apply

IIth Semester

Course Name: Human Geography Paper Code: GGY-HC-2016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
	Theory	Remember
		and

After the completion of	Unit:1 Cartography –	Understan
this course, the students	Meaning, Development	d
will be able to:	(Traditional and Modern	
	Cartography) and	
• The students will acquire	Importance of Cartography	
fundamental knowledge	in Geography.	
about cartography, map	Unit:2 II Shape and	Remember
and man layout	sizeoftheearth coordinatesys	and
• The paper will be useful	tem(latitudeandlongitude)	Understan
for the students in terms of	tem(latitudeandioligitude)	d
surveying an area and	Linit III. Manay Trunca acala	u Damamhan
learning the basic	Unit III: Maps: Types, scale	Kemember
principles and techniques	and content, representation	,Understan
associated with surveying.	of point, line and area in	d and
• The students will	maps	Analysis
understand the need of	Unit IV: Map Projections:	Remember
quantification in	Concept of Map Projection,	,Understan
Geography and learn	Classification of Map	d and
methods involved in	Projections; Choice	Analysis
geographic data analysis	ofmapprojection.	
•	Unit V: Thematic mapping:	Remember
	Conceptandtypes	,Understan
		d and
		Analysis
After the completion of	Practical	Analysis
this course, the students	Unit I: Construction of	and Apply
will be able to:	graphical scale (linear,	
	diagonal and comparative);	
• This paper will provide	conversion of map scale	
the students to undertake		
survey exercises in a	Unit II: Construction of	Analysis
apply different	graticules of Zenithal Polar	and Apply
cartographic techniques to	Gnomonic and	11 5
map the same.	Stereographic, Simple	
• Learning map projections	Conical with one standard	
is an integral part of map	parallel Bonne's conical	
making and this paper will	Gall's Stereographic	
enable the students to gain	Cylindrical along with their	
insight about various map	properties uses and	
projection techniques.	limitations	
	minitations.	

• The paper deals with representing socio- economic data in the form of maps which will be useful for the students in their project work.	Unit III: Preparation of thematic maps (choropleth, isopleth and pie diagram) for representing various physical geographic data.	Analysis and Apply
	Unit IV: Delineation of	Analysis
	drainage basin and drainage	and Apply
	network, construction of	
	cross and	
	long profiles, stream	
	ordering by Horton	
	andStrahler'smethod	
	Unit V: Interpretation of	Analysis
	Geological map and	and Apply
	Construction of cross –	
	section (Two	
	geological maps including	
	one with interruptions)	
	showing different	
	sedimentarybeds.	

Course Name: Climatology and Biogeography Paper Code: GGY-HC-2026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Climatology	and
will be able to:	Unit I : Meaning of	Understan
• The paper will be beneficial for the students in developing ideas on	climatology and its significance in geographical studies.	d
climate related aspects of	Unit II: Atmospheric	Remember
geographical analyses.	Composition and Structure;	and
• The students will be	and their variation with	Understan
benefitted in preparing for	altitude, latitude and season.	d
NET/SLET/UPSC and	Unit III: Insolation and	Remember
other competitive exams.	Temperature; Factors and	,Understan

• The paper will be useful	Distribution and Heat	d and
for the students in gaining	Budget.	Analysis
information on	Unit IV: Atmospheric	Remember
representing and	Pressure and Wind system;	,Understan
interpretating various	Planetary Winds, Forces	d and
• The students will gain	affecting Winds, General	Analysis
knowledge about the	Circulation, Jet Streams	-
physical and chemical	Unit V:	Remember
properties of soil, the	Atmospheric Moisture –	and
processes and factors of	Evaporation, Humidity,	Understan
their formation and	Condensation, Fog,	d
different types	Precipitation Types,	
 The paper will enhance the 	Stability and Instability.	
knowledge of the students	Unit VI:	Remember
about their environment,	Climatic classification of	and
the associated	Koppen and Trewartha;	Understan
environmental concepts	Monsoon - Origin and	d
and relevance.	Mechanism.	
• Understanding about the	Unit VII: Cyclones and	Remember
their distribution and also	anticyclones; Tropical	and
about the man-	Cyclones, Extra-Tropical	Understan
environment relationship	Cyclone.	d
will create awareness and	Biogeography	Remember
sense of responsibility	Unit I: Meaning, Scope and	,Understan
the environment	Significance of	d and
the environment.	biogeography	Analysis
	Unit II: Ecology and	Remember
	Ecosystem, Structure and	,Understan
	functioning of ecosystem	d and
		Analysis
	Unit III: Global distribution	Remember
	of major plants and animals.	,Understan
		d and
		Analysis
	Unit IV: Biomes and	Remember
	Biodiversity hotspots of the	,Understan
	world.	d and
		Analysis

	Unit V: Soil as a component	Remember
	of environment, soil	,Understan
	formation process and	d and
	factors, soil composition	Analysis
	and horizon, Soil types and	
	their distribution in India	
After the completion of	Practical	Analysis
this course the students	Climatology	and Apply
will be able to:	Unit I: Interpretation of	and repry
will be able to.	Indian Weather man for	
• Study Weather map of	Monsoon and non-monsoon	
different places of India	seasons/months based on	
• Study about rainfall	various weather symbols	
variability of different	depicted on mans	
places	Unit II: Preparation of	Analysis
• Annual rainfall graph of different places	weather reports of Indian	and Apply
The students will become	subcontinent by analyzing	and Appry
skilled at preparing.	the weather setellite images	
reading and analysing	of at least three consecutive	
different weather map.	dava (a.g. INSAT 3D	
	NOA Agetallita)	
Biogeography	Luit III: Droporation of	Analysis
	Unit III: Preparation of	Allarysis
• The students will gain a	high and the second stress of the second	and Apply
comprehensive	nythergraph, chinograph	
understanding about the	and ergograph taking data	
distribution of soil and	fromIndia/N.E.India/Assam	
vegetation at regional and	Unit W: Coloulation of	A malausia
national context.	Unit IV: Calculation of	Anarysis
• The paper will develop the	average annual rainfall and	and Apply
skill of the students in		
cartographically	and preparation	
representing different	offainfaildistributionandvari	
data.	abilitymaps(usingisopieths)	
	Biogeography	Remember
	Unit V: Manning of	and
	nrotected areas (National	Understan
	park biosphere reserve and	d
	wildlife sanctuary) of	~
	Assam/ N F India/India	
	Assam/ N.E.India/India.	

Unit VI: Mapping of phyto- geographic and zoogeographic regions of theworld	
Unit VII: Mapping of Biodiversity hotspots of the world.	Remember and Understan d
Unit VIII: Mapping of Soil types of Assam/N.E. India andSoilhorizons	Remember and Understan d

Course Name: Human Geography Paper Code: GGY-HC-2036

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Human Geography	,Understan
will be able to:	Unit I	d and
	:Fieldofhumangeography:m	Analysis
	eaning,scopeandimportance.	
	Unit II: Concepts of man-	Remember
	environmentrelationship:	and
	Determinism	Understan
	andPossibilism.	d
	Unit III:Impact of	Remember
	environment on man;	,Understan
	impact of man on	d and
	environment; population	Analysis
	growth and environmental	
	changes; house types in	
	different	
	environmentalconditions.	
	Unit	Remember
	IV:Globalpatternsofracial,re	,Understan

ligiousandlinguisticcomposi	d and
tionofpopulation.	Analysis
Unit V:	Remember
Origin, growth and	,Understan
characteristics of rural and	d and
urban settlements; Patterns	Analysis
of rural	
settlements;Patternsofurbani	
zationinIndiaandN.E.India.	
Practical	Analysis
Unit I:	and Apply
Traditionalhousetypesofsele	
ctedethnicgroupsofNorth-	
EastIndia.	
Unit II: Trend of population	Analysis
growth in the world in	and Apply
relation to five most	
populous countries of the	
world using linegraph	
Unit III: Religious	Analysis
composition of population	and Apply
in the world and three most	
populous countries of the	
worldusingpie-graph.	
Unit IV: Spatial patterns of	Analysis
urban population in Assam	and Apply
and N.E. India at state level	
through choroplethmap.	
Unit V: Drawing of major	Analysis
rural settlement	and Apply
types/patterns;	
Morphological diagram of a	
village	
andatown(preferablybasedo	
nstudent'sownvillageandto	
wn	

IIIth Semester

Course Name: Economic Geography Paper Code: GGY-HC-3016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Economic Geography	,Understan
will be able to:	Unit:I Meaning, scope and	d and
	approaches	Analysis
• The paper will help the	ofEconomicGeography.	
students to understand now	Unit: II Economic activity:	Remember
associated with economic	meaning and classification;	and
space.	Production system: Role of	Understan
• The students will gain	land, labour andcapital.	d
knowledge about the	Unit III: Agriculture:	Remember
classification, distribution	Factors influencing	and
and importance of different	agriculture; types of	Understan
activities from	agriculture; Von Thunen's	d
geographical perspective.	model of agricultural	
• The paper deals with the	location; Factors	
economic and resource	influencing cultivation of	
base development which	wheat, rice, coffee and tea,	
will assist the students to	and	
understand the subject	theirdistributionandproducti	
matter at global context.	onindifferentpartsoftheworl	
	d.	
	Unit IV: Manufacturing:	Remember
	Factors influencing	and
	industrial location;	Understan
	Classification of industry;	d
	Weber's theory of industrial	
	location; Factors,	
	distribution and production	
	of iron and steel, cotton	
	textileandITindustriesinthe	
	world;Specialeconomiczone	
	sandtechnologyparks.	

	Unit V: Transport system:	Remember
	Modes of transport, factors	,Understan
	influencing transport	d and
	development and role of	Analysis
	transport in resource	
	mobilization and	
	economicdevelopment.	
	1	
	Unit VI: Trade: Factors	Remember
	influencing trade in	,Understan
	different countries of the	d and
	world; Trade relations of	Analysis
	India with the countries like	2
	USA, Russia andJapan.	
After the completion of	Practical	Analysis
this course, the students	Unit I: Trend of rice, wheat	and Apply
will be able to:	and iron & steel production	11 0
	in the world/USA/India	
• The students will learn	since 1960 using moving	
about population data	average and	
representation and	leastsquaresmethods.	
different cartographic	1	
techniques.	Unit II: Trend of production	Analysis
• The paper will be useful	of wheat, rice, maize and	and Apply
for the students in	barley in the world/USA	······································
identifying different	since 1960 using Band-	
settlement patterns across	graph.	
different geographical	Unit III: Trend of balance of	Analysis
• The paper will test the	trade relations (export and	and Apply
sincerity and discipline of	import value) of India with	
the students in terms of	USA. China and	
geographical exercises	Japaninrespectofmajorcom	
conducted in the class	moditiessince1990usingBar-	
through preparation of	graph	
practical note-book.	Unit IV: Regional variation	Analysis
	in fertilizer consumption	and Apply
	and agricultural productivity	and Apply
	in rice wheat and	
	harlevinselected countries of	
	heworldusing Par graph	
	newonuusingbai-graph.	

Course Name: Economic Geography Paper Code: GGY-HC-3026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: India's location and	and
will be able to:	its	Understan
	significance; administratived	d
• The paper will help the	ivisions	
students to gather an in-	Unit: II : Physical setting:	Remember
knowledge of North-East	Physiographic divisions and	and
India which is very	their characteristics; Climate	Understan
pertinent at regional	and its seasonal and regional	d
context.	characteristics; vegetation;	
• The students will get the	soil types and itsdistribution.	
opportunity to learn about	Unit III: Population: Trend	Remember
Assam and its significance	of growth, spatial variation	and
in terms of location.	in growth and distribution;	Understan
economy and biodiversity.	Age and sex composition;	d
• The paper will be useful	Linguistic	
for the students to prepare	andreligiouscomposition.	
for different national	Unit IV: Agriculture:	Remember
competitive exams in general and regional and	Regional distribution and	,Understan
local exams in particular.	production patterns of rice,	d and
	wheat and millet.	Analysis
	Unit V: Industry:	Remember
	Distribution and production	,Understan
	patterns of iron and steel,	d and
	cotton textile and	Analysis
	fertilizers;Roleoftransportsy	
	steminindustrialdevelopmen	
	t.	
	Unit VI: North-East India:	Remember
	Land of seven sisters and its	,Understan
	locational significance;	d and
	physiographic framework;	Analysis
	forest cover; agricultural	

After the completion of	practices including shifting cultivation; industrial development scenario; population growth, distribution and ethniccomposition. Practical	Analysis
 The students will become skilled at preparing, reading and analysing different physical and 	growth and growth rates in India and N.E. India since 1901 using Census data(Source:censusindia.gov .in).	and Apply
 different physical and cultural maps. The paper will provide an opportunity to the students to undertake a field study which will bring a comprehensive research development among the students. The task of preparing a practical notebook will develop the qualitative skill of the students. 	Unit II: Choroplethmappingtoshows patialvariationindecennialpo pulationgrowthrateinIndia Unit III: Spatial variation in the patterns of religious composition of population in India and Social compositionofpopulation(S C,STandGeneral)inN.E.Indi ausingpie-graph.	Analysis and Apply Analysis and Apply
	Unit IV: Trend of foodgrains production (rice, wheat, maize, barley, jowar and bajra) in India since 1950-51usingband-graph.	Analysis and Apply
	distribution of major tribal groups in North-EastIndia.	and Apply

Course Name: Quantitative Methods in Geography Paper Code: GGY-HC-3036

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Quantification and its	and
will be able to:	significance in geographical	Understan
Course outcomes:	study; advantages and	d
	limitations of quantitative	
• The students will acquire	methodsingeography.	
about cartography map	Unit: II :Geographical Data:	Remember
characteristics, map design	Nature, types and sources;	and
and map layout.	scale of measurement	Understan
• The paper will be useful	(nominal, ordinal,	d
for the students in terms of	intervalandratio).	
surveying an area and	Unit III. Measures of central	Remember
learning the basic	tendency (mean, median	and
associated with surveying	and mode) and dispersion	Understan
• The students will	(range, quartile deviation,	d
understand the need of	mean deviation, standard	
quantification in	devi	
Geography and learn	Unit IV:Sampling	Remember
important quantitative	techniques: meaning of	,Understan
methods involved in geographic data analysis	sampling and its need; types	d and
geographic data analysis.	of sampling (simple random	Analysis
	andstratifiedrandom).	
	Unit V: Time series analysis	Remember
	and its applications in	,Understan
	geographical studies; Basic	d and
	techniques of	Analysis
	timeseriesdataanalysis(semi	
	-	
	average, moving average and l	
	eastsquares).	
	Unit VI:Correlation and	Remember
	Regression Analysis:	,Understan
	Meaning of correlation; Bi-	d and
	variate coefficient of	Analysis
	correlation (Spearman's	
	rank correlation and	
	Pearson's product-moment	

	correlation); linear	
	regression analysis; and	
	their applications in	
	geographical dataanalysis	
After the completion of	Practical	Analysis
this course, the students	Unit I:Tabulation/Grouping	and Apply
will be able to:	of geographical data for	11 7
	making frequency	
• This paper will provide	distribution table:	
the students to undertake	Preparation of Histogram.	
survey exercises in a	Frequency	
apply different	PolygonandFrequencyCurve	
cartographic techniques to	Unit II: Computation of	Analysis
map the same.	mean, median and mode for	and Apply
• Learning map projections	ungrouped and grouped	
is an integral part of map	geographical data:	
making and this paper will	Determination of median	
enable the students to gain	and mode using graphical	
insight about various map	methods: Determination of	
• The paper deals with	the	
representing socio-	locationofspatialmeancentre	
economic data in the form	ofsettlements(usingcentrogr	
of maps which will be	aphicmeasure)	
useful for the students in	Unit IIIComputation of the	Analysis
their project work.	values of standard deviation	and Apply
	and coefficient of variation	and rippiy
	of ungrouped and grouped	
	data relating to some	
	geographical phenomena	
	(rainfall landholding	
	income production etc) for	
	comparison of distribution	
	patterns	
	Unit IVAnalysis of time	Analysis
	series data of some	and Apply
	geographical phenomena	and rippij
	(rainfall, production, export	
	value, import value, etc.)	
	using moving average and	
	least squares methods	

Unit V: Computation of	Analysis
coefficient of correlation	and Apply
between two logically	
associated geographical	
phenomena using	
Spearman's rank correlation	
and Pearson's product-	
moment correlation	
formulae; Preparation of	
scatter diagram and fitting	
the line of linear regression	
of Y on X foranysetofbi-	
variatedatarelatingtomeanin	
gfulgeographicalphenomena	

IVth Semester

Name: Environmental Geography and Disaster Management Paper Code: GGY-HC-4016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Environmental	and
will be able to:	Geography: Nature, Scope	Understan
	and Significance	d
• The paper will introduce	Unit: II : Human-	Remember
aspects of environment and	Environment Relationships	and
its issues and its close	– Historical progression,	Understan
relationship to	Adaptation in different	d
development.	Biomes.	
• The students will obtain	Unit III: Major Global	Remember
the opportunity to discuss	Environmental Problems:	and
and understand the	Pollution, Deforestation,	Understan
environmental problems	Desertification, Global	d
environmentar problems.	Warming, and Bio-	
	Depletion.	

• The paper will provide the	Unit IV: Meaning of	Remember
students a broad and detail	Hazard, Disaster, Risk and	,Understan
idea of sustainable	Vulnerability; Types of	d and
management and	hazard/disaster (Natural and	Analysis
development from	Manmade).	
which is one of the relevant	Unit V: Disaster	Remember
topic in present day	Management Cycle and	,Understan
context.	Phases: Prevention,	d and
	Preparedness, Response,	Analysis
	Rehabilitation,	
	Reconstruction and	
	Mitigation,	
	Unit VI: Major Hazards and	Remember
	Disasters, and their	,Understan
	Management: Flood,	d and
	Earthquake, Wildfire, and	Analysis
	Chemical and Nuclear	
	explosions.	
	Unit VII:National	Remember
	Environmental Policy and	,Understan
	National Disaster	d and
	Management Plan:	Analysis
	Environmental Protection	
	Act 1986 and	
	DisasterManagement Act	
	2005.	
After the completion of	Practical	Analysis
this course, the students	Unit I: Exploring satellite	and Apply
will be able to:	imageries and toposheets to	
	observe bank line change of	
• This paper will offer the students to learn different	Brahmaputra river from any	
cartographic methods to	selected stretch in three	
represent population data	different time periods and	
at local, regional and	preparation of map	
global context.	therefrom.	
• Preparation of thematic	Unit II: Mapping of major	Analysis
maps and reading and	wetlands in a district and	and Apply
analysis of these maps	computation of shape and	

including toposheets will	size(area) based	
enhance the understanding	distribution.	
capacity of the students	Unit III: Preparation of a	Analysis
and help them to relate	map of a nearby wetland	and Apply
different features with one	and identify the changes in	
another.	dimension, water level and	
	encroachment it faced	
	during the last one decade.	
	Present your data in tabular	
	form along with the map	
	(field-based).	
	Unit IV: Preparation of a	Analysis
	long-term precipitation time	and Apply
	series curve for any selected	11.2
	station of N.E. India using	
	moving average method by	
	downloading the annual	
	rainfall data for any	
	district/station of Assam for	
	at least 30 years from the	
	portal	
	Unit V: Drawing of a	Analysis
	diagram of disaster	and Apply
	management cycle with	
	reference to some disasters	
	(flood and earthquake) in	
	North-East India and to	
	indicate the activities	
	associated with each step.	
	Unit VI: Drawing of a map	Analysis
	of Assam showing the	and Apply
	major fault lines thereon.	
	Also to plot at least 50	
	epicentres in last few years	
	and to explain the areas of	
	their concentration by	
	taking the help of	
	Bhookamp app.	

UnitVII: Preparation of a	Analysis
disaster vulnerability map of	and Apply
Assam/ N.E. India based on	
data of natural disasters	
(Flood/earthquake/landslide	
/bank erosion) with respect	
to their occurrence and	
frequency in different areas.	

Course Name: Population and Settlement Geography Paper Code: GGY-HC-4026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory Population	Remember
this course, the students	Geography	and
will be able to:	Unit I: Defining the field of	Understan
~	population geography:	d
• Student will understand	nature and scope; Its relation	
about population	with demography.	
 Student will understand 	Unit: II : Sources,	Remember
about settlement pattern.	characteristics and problems	and
rural urban differences etc.	of population data;	Understan
	Perspectives on Census of	d
	India publications – Primary	
	Census Abstract, District	
	Census Hand-Book, Sample	
	Registration System, etc.	
	Unit III: Distribution and	Remember
	density of population:	and
	Factors influencing	Understan
	population distribution and	d
	density; global pattern of	
	population distribution;	
	population density regions	
	in the world.	
	Unit IV: Population	Remember
	Growth: Trend of global	,Understan

population growth:	d and
components of population	Analysis
growth_fertility_mortality	- j 515
and migration: factors	
influencing fertility and	
mortality: push and pull	
factors of migration and pull	
variations in population	
variations in population	
growth in the world.	
Unit V: Theories of	Remember
population growth:	,Understan
Malthusian Theory and	d and
Demographic Transition	Analysis
Theory.	
Unit VI: Population	Remember
composition and associated	,Understan
characteristic patterns in	d and
global contexts: Age-Sex	Analysis
Composition; Rural-Urban	
Composition; Contemporary	
population issues –	
population ageing, declining	
sex ratio, pandemics.	
Settlement Geography	Remember
UnitI: Defining the field of	,Understan
settlement of geography:	d and
Nature and scope.	Analysis
Unit II : Rural and urban	Remember
settlements: Factors	,Understan
influencing distribution	d and
pattern of settlements;	Analysis
Types of rural settlements;	-
Characteristics of rural and	
urban settlements.	
Unit III: Morphology of	Remember
rural and urban settlements:	,Understan
Burgess theory of internal	d and
structure of a town.	Analysis

	UnitIV: Concept of	Remember
	settlement hierarchy,	,Understan
	primate city and urban	d and
	fringe; Christaller's Central	Analysis
	Place Theory.	
After the completion of	Practical	Analysis
this course, the students	Unit I: Trend of population	and Apply
will be able to:	growth in Assam/N.E.	
	India/India through line	
• The students will learn	graph; Calculation and	
about population data	graphical representation of	
interpretation using	trend of decadal and annual	
different cartographic	growth rates of population	
techniques.	in Assam/N.E. India/India.	
• The paper will be useful	Unit II: Choropleth map to	Analysis
for the students in	show spatial pattern of	and Apply
identifying different	decadal variation in	
different geographical	population growth in	
settings.	Assam/N.E. India/India.	
• The paper will test the	Unit III: Choropleth map	Analysis
sincerity and discipline of	showing spatial pattern of	and Apply
the students in terms of	population density in	
geographical exercises	Assam/India.	
conducted in the class	Unit IV: Calculation of	Analysis
practical note-book	distribution pattern of	and Apply
practical note book.	settlements in an area using	
	Nearest Neighbour	
	Analysis.	
	Unit V: Map showing	Analysis
	spatial variation in	and Apply
	social/religious/rural-urban	
	composition of population	
	in Assam/N.E. India using	
	pie-graph.	
	Unit VI: . Choropleth map	Analysis
	showing spatial pattern of	and Apply
	level of urbanization in	
	Assam/N.E. India.	

UnitVII: Map showing	Analysis
distribution of towns and	and Apply
their varied population size	
with spheres in Assam/N.E.	
India.	
Unit VIII: Flow cartogram	Analysis
showing direction and	and Apply
volume of migration into	
Assam/N.E. India from	
different parts of India.	

Course Name: Remote Sensing, GIS and GPS Paper Code: GGY-HC-4036

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Unit I: Remote Sensing:	Remember
this course, the students	Definition and History of	and
will be able to:	Development.	Understan
		d
• The paper will provide the	Unit: II :Principles of	Remember
and recent development in	Remote Sensing System:	and
geographical studies which	Energy sources, EMR and its	Understan
include RS, GIS & GPS.	interaction with Atmosphere	d
• The students will be	and Earth Features;	
introduced to a very new	Platform, Sensor and	
approach in geography and	Resolutions;Aerial and	
will give them a basic	Satellite Remote	
GIS & GPS	Sensing;Fundamentals of	
• The paper will encourage	Photogrammetry.	
the students to seek a new	Unit III:Remote Sensing	Remember
path of study in	data products, sources and	and
geographical domain.	characteristics; Elements of	Understan
	Image Interpretation (Visual	d
	& Digital); Digital Image	
	Processing: Image	
	Enhancement and	
	Classification (Supervised	
	and Un-supervised).	

	Unit IV:Application of	Analysis
	Remote Sensing: Land,	and Apply
	Vegetation and Water	11 2
	GIS	Analysis
	Unit 1: Geographical	and Apply
	Information System (GIS):	IT J
	Definition. Development.	
	Components, and Functions:	
	Open source GIS.	
	Unit ii:GIS Data Types	Analysis
	& Structures: Spatial and	and Apply
	Non-Spatial Data: Raster	
	and Vector Data Structure.	
	Database Management	
	System (DBMS)	
	Unit III: Data Laver	Analysis
	Extraction and Spatial	and Apply
	Analysis: Buffer proximity	and reprij
	and overlay analysis	
	Unit IV : Application of GIS	Analysis
	in geographical studies	and Apply
	(Land Suitability analysis	and reprij
	Network analysis, Flood	
	damage estimation)	
	GPS Unit I: Global	Analysis
	Positioning System (GPS):	and Apply
	Types basicprinciples and	und rippiy
	functions: Different	
	Navigational Systems	
	UnitII: Application of GPS	Analysis
	in surveying and mapping	and Apply
After the completion of	Practical	Analysis
this course the students	Unit IVisual Interpretation	and Apply
will be able to:	of Aerial photograph and	und rippiy
	Satellite Imagery and	
• The students will get a	preparation of thematic	
first hand on knowledge	maps based on appropriate	
about a GIS lab and will	classification scheme.	
technical aspects of	Unit II: Analysis of aerial	Analysis
aspecto 01		

 The paper will give the opportunity to develop the technical skills of students in the field of RS, GIS & GPS. The paper will encourage the students to take geoinformatics as a career option and venture out for diverse opportunities in the same field. 	 image: Determination of photo scale and object height from aerial photo (Using Sterescope); Digital classification of satellite image: supervised and unsupervised. Unit III: Geo-referencing and Data layer creation: Map scanning, geometric correction, digitization of different layers using point, line and polygon, attribute data input and their thematic representation, Buffer 	Analysis and Apply
	creation, Overlay analysis.	
	Unit IV: GPS data	Analysis
	collection, plotting and	and Apply
	mapping of various features	
	within college campus.	

Vth Semester

Name Course: Social and Political Geography Paper Code: GGY-HC-5016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Social Geography	and
will be able to:	Unit I: Social Geography:	Understan
• The paper will be useful for the students in recognizing the intrinsic relationship between	Meaning and scope; its approaches of study; and contemporary trend of its development.	d
geography, society and	Unit: II : Concept and types	Remember
environment.	of social space and social	and
• The students will be	groups.	Understan
introduced to the		d

fundamental concepts in	Unit III: Social Well-being:	Remember
political geography and the	Concept and Component:	and
paper will help them to	Housing, Health and	Understan
understand the political	Education; Concept	d
point of view	ofHuman development and	
• The paper will be useful	its measurements.	
for the students in	Unit IV: Contribution of	Remember
preparing for	race, religion, language and	,Understan
NET/SLET/UPSC and	ethnicity in promoting	d and
other competitive exams.	diversity in India.	Analysis
	Unit V: Social Geographies	Remember
	of inclusion and exclusion:	,Understan
	Caste system, slums, gated	d and
	communities, communal	Analysis
	conflicts and crime; Gender	-
	identity.	
	Political Geography	Remember
	Unit I: Political Geography:	,Understan
	Nature, scope and recent	d and
	trends; Approaches to its	Analysis
	study	
	Unit II : Concept of state,	Analysis
	nation, and nation-state;	and Apply
	Attributes of State.	
	Unit III: Concept of	Analysis
	frontiers and boundaries;	and Apply
	boundary problems with	
	reference to India and	
	NorthEast India; Concept of	
	buffer zones.	
	UnitIV: Concept of	Analysis
	Geopolitics, Heartland and	and Apply
	Rimland;	
	Mackinder'sHeartland	
	Theory.	
	Unit V: Concept of	Analysis
	colonialism, neo	and Apply
	colonialism and lebensraum.	

After the completion of	Practical	Analysis
this course, the students	Unit I: Mapping the spatial	and Apply
will be able to:	patterns of human	
	development in India and	
• The students will learn	Assam using HDI.	
about population data	Unit II: Construction of	Analysis
interpretation using	Ternary Diagram	and Apply
different cartographic	representing social	
techniques.	composition of population	
• The paper will be useful	in India/North East India.	
for the students in	Unit III: Level of Social	Analysis
identifying different	well-being with the help of	and Apply
different geographical	composite Z-score in India	
settings.	/North-East India.	
• The paper will test the	Unit IV: Sex disparity in	Analysis
sincerity and discipline of	literacy in India/North-East	and Apply
the students in terms of	Indiausing Sopher's	
geographical exercises	Disparity Index	
conducted in the class	Unit V: Computation of	Analysis
practical note-book	Shape Index for selected	and Apply
	states of India and countries.	
	Unit VI: Construction of a	Analysis
	map of India/North-East	and Apply
	India highlighting the major	
	inter-state boundary conflict	
	zones.	
	UnitVII: Reorganization of	Analysis
	the states of North-East	and Apply
	India during Pre and Post	
	Independence periods	

Course Name: Field Techniques in Geography Paper Code: GGY-HC-5026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level

After the completion of	Theory	Remember
this course, the students	Unit I: Geography and Field	and
will be able to:	Studies: Geography as a	Understan
	field science; Need of field	d
• The students will learn	work in geography; Nature	
about population data	of field studies in physical	
interpretation using	geography and human	
different cartographic	geography.	
techniques.	Unit: II :Concept of Case	Remember
• The paper will be useful	Study and Its identification	and
for the students in	in the varying geographical	Understan
identifying different	contexts	d
different geographical	(Physical/Human/Rural/Urb	
settings	an/Environmental).	
settings.	Unit III:Tools and	Remember
	Techniques in Field	and
	Studies:Nature of data and	Understan
	their collection techniques	d
	relating to various	
	geographical phenomena	
	(Physical and Human);	
	Structure of field survey	
	questionnaire; Collection of	
	Physical geographic data:	
	Observations and	
	photography, field	
	interview, questionnaire	
	survey,	
	Equipment/Measurement-	
	based survey, etc;	
	Collection of Human	
	geographic data:	
	Questionnaire survey,	
	Participant observation,	
	PRA, Focus group	
	interview/discussion, etc.	
	Unit IV:Surveying: Concept	Remember
	of ground surveying and	and
	mapping;Conduct of	Understan
	traverse surveying with	d

graphical representation of	
the same.	
Unit III: Closed traverse	Analysis
surveying within College	and Apply
campus with Prismatic	
Compass and plotting of	
some details within the	
polygon, and preparation of	
a plan with appropriate	
scale and error correction, if	
any.	
Unit IV: Longitudinal	Analysis
profile levelling and	and Apply
contouring in College	
campus and any nearby area	
with Dumpy Level, and	
plotting of collected data in	
the forms of longitudinal	
profile and contour map.	
Unit V:Collection of point	Analysis
data from an area with	and Apply
handheld GPS and	
preparation of a GPS data	
table and distribution map	
with down-loaded data.	
Unit VI:Preparation of field	Analysis
map of a village, urban	and Apply
locality/market, river	
bank/wetland and its	
adjoining area or their any	
section through Transect,	
Quadrant and sketch map	
along with a spot	
photograph of the same.	

VIth Semester

Course Name: Geographical Thought Paper Code: GGY-HC-6016

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Early development of	and
will be able to:	Geography: Ancient,dark	Understan
	age, medieval, and age of	d
• develops a comprehensive	exploration and discoveries.	
discipline:	Unit: II :Foundation of	Remember
 apply the historic and 	modern geography:	and
contemporary perspective	Contribution of the German,	Understan
to explain	French, British and	d
and approach the real	American geographers.	
world geographic	Unit III:Evolution of	Remember
problems.	geographical thought:	and
	Determinism, possibilism,	Understan
	neo-determinism, human	d
	ecology, cultural landscape	
	and areal differentiation.	
	Unit IV:Recent trends in	Remember
	geography: Quantitative	,Understan
	revolution and its impact,	d and
	logical positivism,	Analysis
	locational school of thought,	
	behaviouralism, humanistic	
	geographyand post-	
	modernism.	
	Unit V: Geographical	Remember
	debates: Regional and	,Understan
	systematic; ideographic and	d and
	nomothetic	Analysis
	Unit VI: Models in	Remember
	geography:Meaning, types	,Understan
	and significance; basic	d and
	concepts of Gravity Model,	Analysis
	Spatial Diffusion Model and	
	Distance Decay Model.	
	Practical	Analysis
	Unit I:Mapping of routes of	and Apply
	exploration and discoveries	

(Marco Polo, Christopher	
Columbus, Vasco-da gama,	
and James Cook)	
Unit II: Intensity of spatial	Analysis
interaction of Guwahati city	and Apply
with neighbouring urban	
centres.	
Unit III: Mapping of	Analysis
population potential	and Apply
surfaces in Assam using the	
gravitymodel.	
Unit IV: Demarcation of	Analysis
urban influence zone by	and Apply
using Reily's breaking point	
formula.	
Unit V: Population Density	Analysis
gradient analysis of	and Apply
Guwahati or any other city.	
Unit VI:Trend of	Analysis
development of paradigms	and Apply
in geography (from	
Environmental Determinism	
to Post Modernism) through	
time-scale graph indicating	
advocates, tentative time of	
emergence and overriding	
theme.	
UnitVII: Preparation of a	Analysis
world map highlighting the	and Apply
major developments of	
geography (Greek, Arab,	
France, Germany, Russia,	
UK and USA) indicating the	
contribution, name of the	
contributor and year of	
contribution.	
	Analysis
Unit VIII: Greek and	and Apply
Arabian contributions to the	

development of Geography	
in different ages (Name of	
contributor and name of	
contribution at different	
points of time) through	
time-scale graph.	

Course Name: Research Methods in Geography and Project Work Paper Code: GGY-HC-6026

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Meaning and	and
will be able to:	significance of research;	Understan
	types of research; Basics of	d
• proceed with a research	research methodology;	
she/he should adopt and	Review of literature and its	
the tools and craft to be	need; Ethics of research.	
employed while doing	Unit: II :Geographic	Remember
quality research.	Research: Meaning and	and
	Characteristics; Formulation	Understan
	of research problem.	d
	Unit III:Research Design:	Remember
	Statement of the problem,	and
	Review of research works,	Understan
	Objectives, Research	d
	questions, Hypotheses,	
	Database and methodology,	
	Significance, Organization	
	of the Work and	
	Referencing.	
	Unit IV:Data Collection:	Remember
	Types and Sources of Data;	and
	Methods of primary data	Understan
	collection (both qualitative	d
	and quantitative, and	
	physical and human	

geographic data); Concept	
of sample survey; Pilot	
survey; Data processing	
Unit V: Statistical Analysis	Remember
of Data: Qualitative data	,Understan
analysis; Quantitative data	d and
analysis; Data	Analysis
representation	
Unit VI: Structure of a	Remember
Research Report:	.Understan
Preliminaries; Text; Tables,	d and
Figures and Appendices;	Analysis
Citations, References and	2
Bibliography;	
Research/Project Report	
Writing: Executive	
Summary.	
Project Report: Each student	Remember
will have to prepare a	.Understan
Project Report on a suitable	d and
geographical problem under	Analysis
the guidance of respective	5
teacher following	
appropriate methodology.	
data base and literature	
review.	

Course Name: Geography of Health Paper Code: GGY-HE–6036

Course Outcome	Unit/ Topic	Bloom's Taxonom y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Geography of Health:	and
will be able to:	Definition and significance;	Understan
• Understand the concept of human health and	approaches of study: ecological, social and spatial; dualism between	d

healthcarefrom the	medical geography and	
perspectiveof	geography of health.	
Geography	Unit: II : Disease ecology:	Remember
• Acquire knowledge about	ecology and human health;	and
factors influencing human	geographical factors	Understan
diseases in varying	affecting human health;	d
ecological settings.	factors influencing disease	
 useful information about 	transmission (pathological,	
the impact of global	physical, environmental,	
climate change on human	social, cultural and	
health and occurrence of	economic); Diffusion of	
various diseases in	diseases and their causes in	
different ecological	varied biotic, physical and	
settings in mula.	cultural environments.	
	Unit III:Classification of	Remember
	diseases: genetic, zoonotic,	and
	communicable, non-	Understan
	communicable,	d
	occupational, deficiency	
	diseases and malnutrition.	
	Unit IV:Disease occurrence:	Remember
	emergence, re-emergence	,Understan
	and persistence; modes of	d and
	transmission of major	Analysis
	diseases (Malaria, Japanese	
	encephalitis, tuberculosis,	
	hepatitis, AIDS and	
	COVID-19) and their broad	
	global distribution.	
	Unit V: Heathcare systems:	Remember
	Meaning and components;	,Understan
	Universal government-	d and
	funded health system; Role	Analysis
	of WHO and UNICEF in	
	global health care; SDG3	
	for good health and Well-	
	being; Healthcare services	
	in India: family welfare,	
	immunization, National	
	Health Mission and	

itsprogrammes, health for	
all programmes, challenges	
to health care system during	
pandemic situation like	
COVID-19.	
Unit VI: Environment,	Remember
human habit and health:	,Understan
Basic concept and ideas	d and
realting to food habit and	Analysis
health, occupation and	
health, environmental	
degradation and health,	
lifestyle and human health.	
Practical	Analysis
Unit I:Mapping of health	and Apply
status indicators (hospital	
beds, primary health	
centres, doctors, para-	
medics, etc.) in Assam/N.E.	
India using Z-score method.	
Unit II: Trend of infant	Analysis
mortality and maternal	and Apply
mortality rates in India in	
relation to selected	
developed and developing	
counties using line graph	
Unit III: Choropleth	Analysis
mapping of infant mortality	and Apply
in India at state level	
Unit IV: Correlation	Analysis
analysis between any	and Apply
physical determinants	
(monthly rainfall/monthly	
average temparature) and	
epidemiological incidence	
of a disease (monthly	
malaria cases) in any district	
of Assam.	

Unit V: Map showing	Analysis
spatial variation of disease	and Apply
incidence rate in India/N.E.	
India at state level.	
Unit VI:Mapping of	Analysis
seasonal variation in the	and Apply
occurrence of Covid-19	
cases in Assam at district	
level using pie graph.	
UnitVII: Preparation of	Analysis
questionnaire for healthcare	and Apply
and health status survey	
	Analysis
Unit VIII: Computation of	and Apply
distribution pattern of	
hospitals, health centres,	
etc. using nearest neighbour	
analysis.	

Course Name: Geography of Tourism Paper Code: GGY–HE-6056

Course Outcome	Unit/ Topic	Bloom's
		Taxonom
		y Level
After the completion of	Theory	Remember
this course, the students	Unit I: Geography of Tourism:	and
will be able to:	Nature and scope; Concepts	Understan
• develope ideas on how geographical factors tangent on tourism activities and how geographers seek to address issues of development and carrying capacities of varied environments.	and Issues of tourism;	d
	Recreation and leisure inter-	
	relations; Robinson's	
	geographical parameters of	
	tourism.	
	Unit: II : Factors and types of	Remember
	tourism: Nature tourism,	and
	Cultural tourism, Medical	Understan
	tourism, Agritourism,	d
	Adventure tourism,	
	Pilgrimage, etc.	

• (enroll in a research	Unit III:Recent trends in	Remember
1	programme and/or	tourism: International and	and
1	provide openings for	Domestic (India); Eco-	Understan
1	them to work with	Tourism; Sustainable tourism;	d
t	tourism/eco-tourism	Meetings, Incentives,	ũ
1	planning agencies.	Conventions and Exhibitions	
		(MICE)	
		Unit IV:Impact of tourism	
		oneconomy, environmentandso	
		ciety.	
		Unit V: Tourism development	Remember
		in India: Tourism	,Understan
		infrastructures; Case studies of	d and
		tourism development	Analysis
		inHimalaya,Desert,Coastal	ja a
		Areas and North-East India	
		with special reference to	
		Assam;	
		NationalTourismPoliciesand	
		prospects.	
		Practical	Analysis
		Unit I:Trend of growth of	and Apply
		tourist arrivals in the	
		World/India/Assam since 1960	
		using Movingaverage method	
		and least squares method.	
		Unit II: Trend of tourist	Analysis
		arrivals in the north-eastern	and Apply
		states of India and a few top-	
		ranking tourist arriving states	
		of India since 1980 using	
		Band-graph.	
		Unit III: Line Graph showing	Analysis
		pattern of tourist arrival	and Apply
		(Domestic and International)in	
		relation to rainfall and	
		temperature in a year for	
		selected tourist spots of North-	
		East India / Assam.	
		Unit IV: Spatial Patterns of	Analysis
		Seasonal variation (Spring,	and Apply
		Summer, Autumn and Winter)	
		in tourist arrival in capital	

cities of North-East Indian	
states using Pie diagram and	
Bar Diagram.	
Unit V: Preparation of a	Analysis
transport connectivity (road,	and Apply
railway and air) map of	
Assam/North-East India for	
major tourist destinations.	
Unit VI:Preparationof a	Analysis
tourist map of North-East	and Apply
India showinglocations of	
important nationalparks and	
wildlife sanctuaries from	
tourism potential perspectives	
(indicating the major	
highlights of the respective	
destinations including distance	
from Guwahati city within	
box)	
UnitVII: Preparationof a	Analysis
tourist guide map of North-	and Apply
East India showing location of	11 2
major tourist destinations and	
road connectivity routes from	
Guwahati city.	
	Analysis
Unit VIII: Mapping of	and Apply
trekking route in a hilly area	····· ··· ····························
suitable for adventure tourism	
using GPS	