

TEACHING PLAN, 2022-2023
(January-June)

Department of Geography
Raha College, Nagaon

Name of the faculty –**PARAG DAS,**
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Semester	Paper Code	Paper Title	Credit	Unit	Topic to be covered	No. of classes
2 ND SEMESTER (Honours) (THEORY)	GGY - HC – 2016	Human Geography	4	1,2 &3	<ul style="list-style-type: none"> • Defining the field of human geography: Meaning and Scope; Nature of human geography and its relation with other social sciences. • School of human geography: Human Ecology, Landscape and Locational. • Paradigms of man-environment relationship study: Determinism, Possibilism, Neo determinism, and Cultural Determinism. 	5+5+8=18
	GGY- HC- 2026	Climatology	4	1,2,3,4 ,5,6&7	<ul style="list-style-type: none"> • Meaning of climatology and its significance in geographical studies. • Atmospheric Composition and Structure; and their variation with altitude, latitude and season. • Insolation and Temperature; Factors and Distribution and Heat Budget. • Atmospheric Pressure and Wind system; Planetary Winds, Forces 	2+3+3 +5+5+4+ 2=24

					<p>affecting Winds, General Circulation, Jet Streams</p> <ul style="list-style-type: none"> • Atmospheric Moisture – Evaporation, Humidity, Condensation, Fog, Precipitation Types, Stability and Instability. • Climatic classification of Koppen and Trewartha; Monsoon - Origin and Mechanism. • Cyclones and anticyclones; Tropical Cyclones, Extra-Tropical Cyclone. 	
2ND SEMESTER (Honours) (PRACTICAL)	GGY-HC-2026	Climatology	2	1,2,3&4	<ul style="list-style-type: none"> • Interpretation of Indian Weather map for Monsoon and non-monsoon seasons/months Based on various weather symbols depicted on maps. • Preparation of weather reports of Indian subcontinent by analyzing the weather satellite images of at least three consecutive days (e.g. INSAT 3D, NOAA satellite). • Preparation of rainfall-temperature graphs; hythergraph, climograph and ergograph taking data from India/ N.E.India /Assam. • Calculation of average annual rainfall and variability of annual rainfall and preparation Of rainfall distribution and variability maps (using isopleths). 	2+3+3+2=10
2ND SEMESTER (Honours Generic/Regular) (THEORY)	GGY-HG/R C-2016	Human Geography	4	2	<ul style="list-style-type: none"> • Concepts of man-environment relationship: Determinism and Possibilism. 	8

<p>4TH SEMESTER (Honours) (THEORY)</p>	<p>GGY- HC- 4016</p>	<p>Environmental Geography and Disaster Management</p>	<p>4</p>	<p>1,2,3,4 ,5,6 & 7</p>	<ul style="list-style-type: none"> • Environmental Geography: Nature, Scope and Significance. • Human-Environment Relationships – Historical progression, Adaptation in different Biomes. • Major Global Environmental Problems: Pollution, Deforestation, Desertification, Global Warming, and Bio-Depletion. • Meaning of Hazard, Disaster, Risk and Vulnerability; Types of hazard/disaster (Natural and Manmade).. • Disaster Management Cycle and Phases: Prevention, Preparedness, Response, Rehabilitation, Reconstruction and Mitigation, • Major Hazards and Disasters, and their Management: Flood, Earthquake, Wildfire, and Chemical and Nuclear explosions. • National Environmental Policy and National Disaster Management Plan: Environmental Protection Act 1986 and Disaster Management Act 2005. 	<p>4+6+10+ 4+4+6+6 =40</p>
<p>4TH SEMESTER (Honours) (PRACTICAL)</p>	<p>GGY- HC- 4016</p>	<p>Environmental Geography and Disaster Management</p>	<p>2</p>	<p>2,3,4,5 ,6 & 7</p>	<ul style="list-style-type: none"> • Mapping of major wetlands in a district and computation of shape and size (area) based distribution. • Preparation of a map of a nearby wetland and identify the changes in dimension, water level 	

					<p>and encroachment it faced during the last one decade. Present your data in tabular form along with the map (field-based).</p> <ul style="list-style-type: none">• Preparation of a long-term precipitation time series curve for any selected 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 https://www.indiawaterportal.org/met_data/. Students can also explore the web portal https://mausam.imd.gov.in/ to get an idea of different types of weather data in India and their historical and present distribution.• Drawing of a diagram of disaster management cycle with reference to some disasters (flood and earthquake) in North-East India and to indicate the activities associated with each step.• Drawing of a map of Assam showing the 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.• Preparation of a disaster	
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					vulnerability map of 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.	
4TH SEMESTER (Honours) (THEORY)	GGY-HC-4026	Population and Settlement Geography	4	1,2,3,4,5 & 6	<ul style="list-style-type: none"> • Defining the field of population geography: nature and scope; Its relation with demography. • Sources, characteristics and problems of population data; Perspectives on Census of India publications – Primary Census Abstract, District Census Hand-Book, Sample Registration System, etc. • Distribution and density of population: Factors influencing population distribution and density; global pattern of population distribution; population density regions in the world. • Population Growth: Trend of global population growth; components of population growth– fertility, mortality and migration; factors influencing fertility and mortality; push and pull factors of migration :spatial variations in population growth in the world. • Theories of population growth: Malthusian 	

					<p>Theory and Demographic Transition Theory.</p> <ul style="list-style-type: none"> • Population composition and associated characteristic patterns in global contexts: Age-Sex Composition; Rural-Urban Composition; Contemporary population issues – population ageing, declining sex ratio, pandemics. 	
<p>4TH SEMESTER (Honours) (PRACTICAL)</p>	GGY-HC-4026	Population and Settlement Geography	2	1,2,3,4,5,6,7 & 8	<ul style="list-style-type: none"> • Trend of population growth in Assam/N.E. India/India through line graph; Calculation and graphical representation of trend of decadal and annual growth rates of population in Assam/N.E. India/India. • Choropleth map to show spatial pattern of decadal variation in population growth in Assam/N.E. India/India. • Choropleth map showing spatial pattern of population density in Assam/India. • Calculation of distribution pattern of settlements in an area using Nearest Neighbour Analysis. • Map showing spatial variation in social/religious/rural-urban composition of population in Assam/N.E. India using pie-graph. • Choropleth map showing spatial pattern of level of urbanization in Assam/N.E. India • . Map showing 	

					<p>distribution of towns and their varied population size with spheres in Assam/N.E. India.</p> <ul style="list-style-type: none"> • Flow cartogram showing direction and volume of migration into Assam/N.E. India from different parts of India 	
6TH SEMESTER (Honours) (THEORY)	GGY- HC- 6016	Geographical Thought	4	1 & 3	<ul style="list-style-type: none"> • Early development of Geography: Ancient, dark age, medieval, and age of exploration and discoveries. • Evolution of geographical thought: Determinism, possibilism, neo-determinism, human ecology, cultural landscape and areal differentiation 	8+8=16
6TH SEMESTER (Honours) (THEORY)	GGY- HE- 6056	Geography of Tourism	4	1,2,3,4 & 5	<ul style="list-style-type: none"> • Geography of Tourism: Nature and scope; Concepts and Issues of tourism; Recreation and leisure inter relations; Robinson's geographical parameters of tourism. • Factors and types of tourism: Nature tourism, Cultural tourism, Medical tourism, Agritourism, Adventure tourism, Pilgrimage, etc. • Recent trends in tourism: International and Domestic (India); Eco-Tourism; Sustainable tourism; Meetings, Incentives, Conventions and Exhibitions (MICE) • Impact of tourism on economy, environment and society. • Tourism development in India: Tourism infrastructures; Case studies of tourism development In 	4+6+12+ 6+12=40

					Himalaya, Desert, Coastal Areas and North-East India with special reference to Assam; National Tourism Policies and prospects.	
6TH SEMESTER (Honours) (PRACTICAL)	GGY–HE-6056	Geography of Tourism	2	1,2,3,4, 5,6 &7	<ul style="list-style-type: none"> • Trend of growth of tourist arrivals in the World/India/Assam since 1960 using Moving average method and least squares method. • Trend of tourist arrivals in the north-eastern states of India and a few top-ranking tourist arriving states of India since 1980 using Band-graph. • Line Graph showing pattern of tourist arrival (Domestic and International)in relation to rainfall and temperature in a year for selected tourist spots of North-East India /Assam. • Spatial Patterns of Seasonal variation (Spring, Summer, Autumn and Winter) in tourist arrival in capital cities of North-East Indian states using Pie diagram and Bar Diagram. • Preparation of a transport connectivity (road, railway and air) map of Assam/North-East India for major tourist destinations. • Preparation of a tourist map of North-East India showing locations of important National parks and wildlife sanctuaries 	4+2+2+2 +1+2+1+1=15

					<p>from tourism potential perspectives (indicating the major highlights of the respective destinations including distance from Guwahati city within box)</p> <ul style="list-style-type: none"> • Preparation of a tourist guide map of North-East India showing location of major tourist destinations and road connectivity routes from Guwahati city. • Mapping of trekking route in a hilly area suitable for adventure tourism using GPS (Field based). 	
6TH SEMESTER (RE) (THEORY)	GGY-RE-6036	Geography of Health	4	1,2,3,4, 5&6	<ul style="list-style-type: none"> • Geography of Health: Definition and significance; approaches of study: ecological, social and spatial. • Disease ecology: ecology and human health; geographical factors affecting human health; factors influencing disease transmission (pathological, physical, environmental, social, cultural and economic). • Classification of diseases: genetic, zoonotic, communicable, non-communicable, occupational, deficiency diseases and malnutrition. • Disease occurrence: Emergence, re-emergence and persistence; Modes of transmission of major diseases (Japanese encephalitis, hepatitis, 	6+8+4+8+8+6=40

					<p>AIDS and COVID-19) and their broad global distribution.</p> <ul style="list-style-type: none"> • Health care Systems: Meaning and components; Universal government-funded health system; Role of WHO and UNICEF in global health care; Health care services in India: Family welfare, Immunization, National Health Mission and its programmes, Challenges to healthcare system during pandemic situation like COVID 19. • Environment, human habit and health: Basic concept and ideas relating to food habit and health, occupation and health, environmental degradation and health, and lifestyle and human health. 	
<p>6TH SEMESTER (RE) (THEORY)</p>	GGY-RE-6036	Geography of Health	2	1,2,3,4,5,6&7	<ul style="list-style-type: none"> • Mapping of health status indicators (hospital beds, primary health centres, doctors, para medics, etc.) in Assam/N.E. India using Z-score method. • Trend of infant mortality and maternal mortality rates in India using line graph. • Choropleth mapping of infant mortality in India at state level. • Map showing spatial variation of disease incidence rate in India/N.E. India at state level. • Mapping of seasonal 	$1+2+1+1+1+1+1=8$

					<p>variation in the occurrence of Covid-19 cases in Assam at district level using pie graph.</p> <ul style="list-style-type: none">• Preparation of questionnaire for health care and health status survey.• Graph showing relationship of disease (JE, Malaria, etc.) occurrence pattern due to monthly variation of rainfall and average temperature in any district of Assam.	
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