LESSON PLAN 2018-2019

1ST SEMESTER
PHYSICAL GEOGRAPHY (GEOGCORO1T)

COURSE OUTCOME:

1. Students will be able to distinguish between endogenic and exogenic forces
2. Students will realize the concept of Isostasy based on equilibrium concept. Students will be able to correlate between different types of geomorphic process and resultant landforms as a process response system.
3. Students will be able to identify the landforms as a geoheritge.
4. Students will be able to identify the appropriate landform for certain human activities.
5. Students will be able to interpret the landforms as a tourist guide. Students will be able to learn about the elements of atmosphere i.e. nature, composition, insolation, distribution **of** temperature, green house gas etc. These topic helps the student to understand about the change of climate and they will be able to correlate to their local climatic condition
6. Students will be able to learn about the atmospheric phenomena and also climatic condition such as condensation process, air mass, front, cyclone, monsoon circulation in India.
7. Students will be able to select suitable crop according to the climatic condition.
8. The knowledge about cyclone help in student to take necessary action any cyclonic event as a disaster management
9. Understand systems approach in hydrology and the concept of global hydrological cycle, its physical and biological role
10. Describe the major relief features of the ocean floor, its characteristics and origin according to plate tectonics, physical and chemical properties of ocean water.

COURSE COORDINATOR: Dr. Rajat Halder

Teacher: Prof. Mousume Ghosh (MG), Prof. Suryadeb Goswami (SDG), Prof. Pradipta Prakash Roy (PPR)

MONTH	TEACHER	HOUR	UNIT	TOPIC
July	SDG	2	1	Physical Geography – Definition and Scope
		2		Components of Earth System
		1		Revision

	MG	2	1	Internal Structure of Earth based on Seismic Evidence
		2		Plate Tectonics and its associated Features.
		2		Plate Tectonics and its associated Features.
		2		Revision
	PPR	2	2	Insolation
		2		Heat Balance
		1		Revision
August	SDG	2	1	Influence of rocks on topography: Limestone
		2		Granite
		2		Revision
		2		Revision
	MG	4	1	Evolution of landforms under fluvial process
		2		Normal Cycle of Erosion of Davis
		2		Normal Cycle of Erosion of Davis
		2		Revision
		1		Class test
	PPR	2	2	Insolation
		2		Heat Balance
September	SDG	2	1	Revision of components of earth system
		2		Class test
		2		Formation of erosional landforms by coastal process
		2		Revision of Formation of erosional landforms by coastal process
	MG	4	2	Horizontal distribution of temperature
		4		Vertical distribution of temperature
		4		Horizontal distribution of pressure
		2		Revision
		1		Revision
	PPR	2	1	Formation of depositional landforms by aeolian processes
		2		Revision of Formation of depositional landforms by aeolian processes
		2		Class test
October	SDG	2	1	Formation of depositional landforms by coastal
		1		Revision
October	MG	2	Unit-1	Revision of Evolution of landforms under fluvial process
		2		Revision of Normal Cycle of Erosion of Davis
	PPR	2	2	characteristics of Monsoon
November	SDG	2	2	Planetary wind system
		2		Revision of Planetary wind system
		2		Tropical Cyclone
	MG	4	2	Climatic Classification: Köppen
		2		Revision
	PPR	2		Revision of heat budget
December	SDG	2	2	Hydrological Cycle
		2		Ocean Bottom Relief Feature

		2		Revision of Hydrological Cycle
		2		Revision of Ocean Bottom Relief Feature
	MG	4	2	Revision of Climatic Classification: Köppen
		4		Revision of Plate Tectonics and its associated Features
		2		Class Test
	PPR	2	2	ocean currents.
		2		ocean currents
		1		Revision

2ND YEAR

PAPER-II: HUMAN GEOGRAPHY AND REGIONAL GEOGRAPHY OF INDIA

Course Outcome:

1. Identify the factors of growth and distribution of world population with special reference to fertility, mortality and age-sex structure of population

2. Explain the concept and classification of migration, its causes and consequences

3. Understand contemporary social issues like literacy and poverty

4. Identify the sectors of the economy and describe their characteristics and changing emphasis through time.

5. Identify the types of agriculture and describe their characteristics shifting cultivation of India**,** intensive subsistence rice farming in India, plantation farming in India**.**

6**.** Identify the general characteristics, location, problems and prospects of cottage, small scale and large-scale industries with special reference to cotton textile industry, heavy engineering industry **,**locomotive, Petroleum refining industry.

7. Understand regions of India with emphasis on formal \and functional

8. Identify the broad physiographic regions of India with special reference to Deccan Trappe

9. Identify the agricultural regions of India with special reference to Punjab-Haryana wheat belt, and industrial Regions of India: special reference to Asansol-Durgapur industrial belt.

10. Describe Indian monsoon and its impact with emphasis on problem of flood, drought and cyclone.

11. Describe the forest resources of India with special reference to issues concerning deforestation and social forestry

COURSE COORDINATOR- Dr. Rajat Halder (Rh)
Teacher - Prof. Mousume Ghosh (MG), Prof. Pradipta Prakash Roy (PPR), Prof. Suryadev Goswami (SDG)

Months	Teacher	Classes	Topics
July	SDG	2	Factors of growth and distribution of world population.
		1	Fertility
		2	Mortality and age-sex structure of population with reference to India
	PPR	2	Migration**:** Types, causes and consequences
	MG	2	Contemporary Social issues**:** Literacy and poverty.
August	SDG	2	Sectors of the economy: primary, secondary, tertiary and quaternary: Changing emphasis through time.
		1	Types of agriculture: Shifting cultivation of India
		2	Intensive subsistence rice farming in India
		2	Plantation farming in India**:** Tea
		1	Coffee
	PPR	2	Scales of production**:** cottage, small scale and large-scale industries — general characteristics and examples.
		2	Scales of production**:** cottage, small scale and large-scale industries — general characteristics and examples
	MG	2	Cotton textile industry
		1	Revision
September	SDG	1	Concept of regions**:** formal and functional
		2	Broad physiographic regions of India: special reference to Deccan Trappe
		2	Agricultural Regions of India: special reference to Punjab-Haryana wheat belt
		2	Industrial Regions of India: special reference to Asansol-Durgapur industrial belt
		1	Discursion
	PPR	2	Indian monsoon and its impact: problem of flood
		2	Drought
	MG	1	Heavy engineering industry**:** locomotive.
		1	Petroleum refining industry

		2	Class test
October	SDG	1	Factors of growth and distribution of world population
		1	Fertility
		2	Revision
	PPR	1	cyclone.
	MG	1	Causes and consequences of soil erosion in India.
		1	Class test
		2	Revision
November	SDG	1	Forest resources of India: issues concerning deforestation
		1	social forestry
		1	Revision
	PPR	1	Migration**:** Types, causes and consequences
		1	Scales of production**:** cottage, small scale and large-scale industries — general characteristics and examples
	MG	1	Petroleum refining industry
		1	Revision of Causes and consequences of soil erosion in India
December	SDG	1	Types of agriculture: Shifting cultivation of India
		1	Revision
	PPR	1	Revision of Scales of production**:** cottage, small scale and large-scale industries — general characteristics and examples
	MG	1	Heavy engineering industry**:** locomotive.
		1	Revision
		1	Class test
January	SDG	1	Forest resources of India: issues concerning deforestation
		1	social forestry
	PPR	1	Cyclone.
	MG	1	Revision Cotton textile industry
		1	Class test
February	SDG	1	Factors of growth and distribution of world population
		1	Concept of regions**:** formal and functional
	PPR	1	Class test
	MG	1	Causes and consequences of soil erosion in India.
		1	Revision

March	SDG	1	Migration**:** Types, causes and consequences
		1	Scales of production**:** cottage, small scale and large-scale industries
	PPR	1	Cyclone.
		1	Revision
	MG	1	Heavy engineering industry**:** locomotive.
		1	Class test
April	SDG	1	Types of agriculture: Shifting cultivation of India
		1	Revision
	PPR	1	Indian monsoon and its impact: problem of flood
		1	Drought
	MG	1	Contemporary Social issues**:** Literacy
		1	Poverty
May	SDG	1	Forest resources of India: issues concerning deforestation
		1	social forestry
	PPR	1	Migration**:** Types, causes and consequences
	MG	1	Revision poverty

PAPER-III: APPLIED GEOGRAPHICAL TECHNIQUES

COURSE OUTCOME:

1. Develops deep understanding about concepts of scale, projections and cartograms and perform their computations and graphical representations.

2. Understands and interpret topographical sheet

3. Acquire skills of performing basic statistics

4. Ability to write a field report based on man-nature relationship in a rural mouza or urban ward survey, data collection, computation and graphical representation.

COURSE COORDINATOR- Prof. Susmita Halder

Teacher - Prof. Mousume Ghosh (MG), Prof. Pradipta Prakash Roy (PPR), Prof. Suryadev Goswami (SDG)

Month	Teacher	Class	Topic
July	SDG	1	Concept of scales
		1	linear scales
	PPR	1	Projections: Concept and major classification
		1	Projections: Concept and major classification
	MG	1	Basis of numbering and scale of Survey of India Topographical sheets
		1	Revision
August	SDG	2	Liner scale
	PPR	2	Simple conic with one standard parallel
	MG	2	Concept of topographical sheet
September	SDG	2	Diagram of linear scales.
	PPR	2	Simple conic with one standard parallel
	MG	2	Interpretation of relief from topographical maps with profiles and sketches
October	SDG	2	Nature and classification of data
	PPR	2	Cylindrical Equal Area
	MG	2	Interpretation of relief from topographical maps with profiles and sketches
November	SDG	2	Histogram,
	PPR	1	Cylindrical Equal Area
	MG	2	Interpretation drainage from topographical maps with profiles and sketches.
December	SDG	2	Frequency polygon
		1	Revision
	PPR	2	Polar Zenithal Gnomonic
	MG	2	Interpretation of communication from topographical maps with sketches
		2	Interpretation of settlement from topographical maps with sketches

January	SDG	2	Cumulative frequency curve.
	PPR	2	Revision Simple conic with one standard parallel
	MG	2	Relationship between physical and cultural features with the help of transect chart.
		1	Land use survey
February	SDG	2	Collection of socio-economic and physical data
		2	Collection of socio-economic and physical data
	PPR	1	Revision Simple conic with one standard parallel
		1	Revision of Cylindrical Equal Area
	MG	2	Measures of central tendency: mean
		2	Median and mode
April	SDG	2	Tabulation of socio-economic and physical data
		2	Preparation of maps and diagrams showing broad Physiographic Divisions
	PPR	2	Revision of Polar Zenithal Gnomonic
	MG	2	Methodology
		2	Preparation of land use map
May	SDG	2	Preparation of maps and diagrams on Drainage
		2	Class test
	PPR	1	Class test
	MG	2	Preparation of maps and diagrams on demographic characteristics

3RD YEAR

PAPER-IV: APPLIED GEOGRAPHY

Course Outcome:

1. Understand the concept and attributes of land, objectives and principles of land use

2. Identify the factors influencing land use and land categories

3. Classify rural and urban settlement's evolution, nature, characteristics and issues

4. Understand the basic concept of Remote Sensing, aerial photo and satellite imagery, GIS and its applicability

5. Ability to interpret weather map, aerial photo and prepare thematic maps representing flow diagram and detour index

COURSE COORDINATOR- Prof. Susmita Halder
Teacher - Prof. Mousume Ghosh (MG), Prof. Suryadev Goswami (SDG)

Month	Teacher	Class	Topic
July	SDG	1	Concept and attributes of land.
		1	Objectives of land use.
	MG	2	Factors influencing land use
August	SDG	2	Rural settlements: evolution
		2	Nature and effect of physical environment
		2	**Revision**
	MG	2	Factors influencing land categories
		4	Agricultural land use

		2	Non-agricultural land use
September	SDG	2	Urban settlements: definition, concept
		2	Morphology
		2	Urban settlements : function.
	MG	2	Concept of Remote Sensing
		4	Different methods of remote sensing
October	SDG	2	Urban settlements : function
		1	Revision
	MG	2	Aerial Photo: Types
		2	Photo Overlap
November	SDG	2	Flow diagram
		2	Determination of Detour Index
		1	Revision
	MG	2	Concept of principal point, fudicial marks, flight line
December	SDG	2	Identification of Weather map
		2	Diagram of weather map
		2	Interpretation of weather map
		1	Interpretation of weather map
	MG	2	IRS images: Sensors,
		2	Spatial and attribute data
		2	Raster and vector data structure and concept of information layers in GIS.
		2	Aerial photo interpretation for identification of broad physical and cultural features
January	SDG	1	Class test
		2	Revision of weather map
	MG	4	Concept of GIS and its applicability
		1	Spatial and attribute data
February	SDG	2	Flow diagram
		2	Determination of Detour Index
		1	Morphology of settlement
	MG	2	Revision of IRS images: Sensors
		2	Class test
		1	Factors influencing land categories
March	SDG	2	Revision of Flow diagram
		2	Revision of Determination of Detour Index
		2	Weather Maps
	MG	2	Revision of IRS images: Sensors,
		2	Revision of Spatial and attribute data
		2	Raster and vector data structure and concept of information layers in GIS
April	SDG	2	Revision of Attributes of land.
		2	Revision of Rural settlements: evolution

		2	Nature and effect of physical environment
	MG	2	Raster and vector data structure and concept of information layers in GIS
		2	Aerial photo interpretation for identification of broad physical and cultural features
May	SDG	2	Class test
	MG	2	Class test

2ND SEMESTER

HUMAN GEOGRAPHY (GEOGCOR02T)

Course Outcome:

1. Student will able to interpret about the impact of environment on human society.

2. In future student will be able to plan of new urban site based on urban morphology.

3. Student will be able to scientific discussion about the heterogeneity of races, ethnicity etc.

4. Student will able to realize about the evolution of human society therefore be able to show respect every human society.

5. Student will be able to find out the proper location for a new settlement.

COURSE CO-ORDINATOR- Dr. Rajat Halder
Teacher- Prof. Suryadev Gowsami (SDG), Prof. Mousume Ghosh (MG), Prof. Prodipta Prakash Roy (PPR)

MONTH	TEACHER	UNIT	HOURS	TOPIC
JANUARY	SDG	UNIT - 1	2	Factors of growth of world population
			2	Revision
			4	Distribution of world population
February	SDG	Unit-1	4	Demographic Transition theory
			2	World population composition -age
			2	World population composition- gender
			2	Revision

			1	Literacy
March	SDG	Unit-1	2	Definition of migration, types
			2	Internal
			4	Causes of migration& consequences
			2	Revision
April	SDG	Unit- 1	2	Revision of Factors of growth of world population
			2	Revision of Distribution of world population
			2	Revision of Demographic Transition theory
			2	Class test
			2	Revision of migration, types
			1	Class test
May	SDG	Unit-1	2	Internal
January	MG	Unit-1	2	Concept of space & society
			4	Cultural regions
			2	Race
			1	Religion
February	MG	Unit-1	2	Illiteracy
			2	poverty
			2	Sectors of economy : primary , secondary
			2	Tertiary , quaternary
			2	Revision Cultural regions
			1	Revision of Illiteracy
March	MG	Unit-2	2	Internal
			2	Types of Agriculture
			4	Intensive rice farming subsistence
			2	Revision
April	MG	Unit -2	4	Tea plantation
			2	Class test
			2	Revision
			2	Coffee Plantation
			2	Revision
May	MG	Unit -2	2	Internal
			1	Revision
January	PPR	Unit-2	4	Cotton Textile
			4	Petroleum refining
			3	Locomotive
February	PPR	Unit-2	2	Revision
			2	Class test
			2	Types of Rural settlement
			2	Patterns of Rural settlement
			2	Revision
March	PPR	Unit-2	2	Internal
			2	Classification of urban settlement
			2	Revision

			4	Trends and patterns of world Urbanization
			2	Discursion
April	PPR	Unit-2	4	Pattern of world urbanization
			2	Revision of Petroleum refining
			2	Revision of Patterns of Rural settlement
			2	Internal
May	PPR	Unit-2	2	Discursion