## Curriculum Plan

of

## Mr. Nabanu Roy

Session: 2023-2024

## **Department of Geography**

## **January to June (Even Semesters)**

Month		Semesters	Title of the Topics	Sub Topics	No. of Classes	Remarks
		2 <sup>nd</sup> Sem- MAJOR (Theory)	Settlement geography	Definition, nature, scope and content of settlement geography; Concept of site and situation	8	8 class lectures
		2 <sup>nd</sup> Sem -MAJOR (Practical)	Scale	Construction of Diagonal scale	3	3 class lectures
	SEMESTER	2 <sup>nd</sup> Sem - SEC (Theory)	Sustainable development;	Definition and concept of sustainable development; Elements of sustainable development	6	6 class lectures
		2 <sup>nd</sup> Sem-SEC (Practical)	Project Report	Project Report	2	2 class lectures
	2 <sup>ND</sup>	2 <sup>nd</sup> Sem-MINOR (Theory)	Interior of the earth; Continental drift & Plate tectonics theory; Folds and faults	Interior of the earth; Continental drift theory by Wegener; Plate tectonics; Folds and faults	6	5class lectures & 1 map observation session
χ <b>.</b>		2 <sup>nd</sup> Sem-MINOR (Practical)	Scale	Definition and types; Construction of linear Scale	3	3 class lectures
JANUARY	4 <sup>TH</sup> SEMESTER	4 <sup>th</sup> Sem-DSC (Theory)	Spatial Information Technology (SIT)	Definitions, concept and historical development of SIT	6	6 class lectures
7		4 <sup>th</sup> Sem - DSC (Practical)	Aerial Photographs	Identification of broad physical features from aerial photographs using pocket stereoscope	2	2 class lectures
		4 <sup>th</sup> Sem - SEC	Geographical Information System	Definition and Components of GIS	4	3 class lectures &1 PPT based classes
		4 <sup>th</sup> Sem-GE (Theory)	Physiography, Climate, Natural Vegetation and Soil	Physiography, Climate, Natural Vegetation and Soil	6	6 class lectures
		4 <sup>th</sup> Sem -GE (Practical)	Geological map	Uniclinal structure with given dips	2	2 class lectures
	SEMESTER	6 <sup>th</sup> Sem - DSE (Theory)	Climate change	Concepts and implications; Greenhouse effect	6	6 class lectures
		6 <sup>th</sup> Sem - DSE (Practical)	Project Report	Project Report based on impact and adaptation to climate change	2	2 class lectures
İ	9 HI S	6 <sup>th</sup> Sem - SEC	GIS	Definition and Components of GIS	4	3 class lectures & 1 PPT class

				Origin and growth of rural		7 class
		2 <sup>nd</sup> Sem -MAJOR		and urban settlements.		lectures, 1
		(Theory)	Settlements	Types, patterns and	0	doubt clearing
				distribution of rural	9	session & 1
				settlements; Morphology		PPT based
		nd		of rural settlements		class
		2 <sup>nd</sup> Sem -MAJOR	Scale	Scale: Construction of	3	3 class lectures
		(Practical)		Vernier scale		
			0 1 . 1	Social sustainability,		
		2 <sup>nd</sup> Sem -SEC	Sustainability and Global issues related	economic sustainability		
	<b>K</b>	(Theory)	to sustainable	and environmental sustainability; Global	6	6 class lectures
		(Theory)	development	issues related to		
	SEMESTER		development	sustainable		
	EN			development like		
	S			deforestation		
	2 <sup>ND</sup>	2 <sup>nd</sup> Sem -SEC	Project Report	Project Report	2	2 class lectures
		(Practical)	J 1	3 1		
			Weathering and	Weathering and mass		
		nd	mass movement;	movement; Erosional and		
		2 <sup>nd</sup> Sem-MINOR	Erosional and	depositional landforms:	6	6 class lectures
RY		(Theory)	depositional	Fluvial, Glacial and		
FEBRUARY			landforms:	Aeolian.		
BR		2 <sup>nd</sup> Sem-MINOR		Construction of		3 class lectures
		(Practical)	Scale	comparative and diagonal	3	with final
_		,		scale		signature
		4 <sup>th</sup> Sem-DSC	Spatial	Web data sources;	6	6 class lectures
		(Theory)	Information/Data	registration and projection		
				Identification of broad		
	4 <sup>TH</sup> SEMESTER	4 <sup>th</sup> Sem - DSC	Aerial Photographs	cultural features from	2	2 class lectures
		(Practical)		aerial photographs using		
		4th g grad	C1 1 1 P ::: :	pocket stereoscope	4	4 1 1
		4 <sup>th</sup> Sem - SEC	Global Positioning System (GPS)	Principles and uses of GPS	4	4 class lectures
		4 <sup>th</sup> Sem-GE	System (GI 5)	Types of settlements,		
		(Theory)	Settlements	morphology of rural and	6	6 class lectures
		•		urban settlements		
		4 <sup>th</sup> Sem -GE	Geological map	Folded structure with	2	2 class lectures
		(Practical)		given dips		6 1 1
	K.	6 <sup>th</sup> Sem - DSE	C1: 4 1	Global warming and	7	6 class lectures
	STE	(Theory)	Climate change	IPCC	7	& 1 class for library work
	Œ	6 <sup>th</sup> Sem - DSE	Project report	Pre field activities	2	2 class lectures
	SEMESTER	(Practical)	1 Toject Teport	The field delivities	4	2 class rectares
	E E	6 <sup>th</sup> Sem - SEC	Global Positioning	Principles and uses of GPS	4	4 class lectures
	9		System (GPS)	<u> </u>		
H	ER	2 <sup>nd</sup> Sem -MAJOR	Theories of origin of	Theories of origin of		
MARH	2 <sup>ND</sup>	(Theory)	towns & Functional	towns after Childe and	0	8 class lectures
	2 <sup>ND</sup> SEMESTER		classification of urban	Mumford; Functional	9	& 1 PPT based
		i	settlements	classification of urban		class

			settlements: A. Mitra		
	2 <sup>nd</sup> Sem -MAJOR (Practical)	Map projection	Map projection: Definition, nature, properties, classification and uses; Mathematical / graphical construction of Polar Zenithal Gnomonic Projection	3	3 class lectures
	2 <sup>nd</sup> Sem -SEC (Theory)	Global issues related to sustainable development & Global initiatives in sustainable development	Global issues related to sustainable development like soil erosion & Global initiatives in sustainable development like Ramsar convention	6	6 class lectures
	2 <sup>nd</sup> Sem -SEC (Practical)	Project Report	Project Report	2	2 class lectures
	2 <sup>nd</sup> Sem-MINOR (Theory)	Composition and structure of atmosphere; Insolation and heat budget; Temperature distribution, pressure belts	Composition and structure of atmosphere; Insolation and heat budget; Temperature distribution, pressure belts	6	6 class lectures
	2 <sup>nd</sup> Sem-MINOR (Practical)	Map projection	Mathematical / graphical construction of Polar Zenithal Gnomonic Projection	3	3 class lectures
	4 <sup>th</sup> Sem-DSC (Theory)	Spatial Information/Data	Data structures; data interpolation	6	6 class lectures
<b>2</b>	4 <sup>th</sup> Sem - DSC (Practical)	Statistical techniques	Measures of central tendency	3	3 class lectures with signature
4 <sup>TH</sup> SEMESTER	4 <sup>th</sup> Sem - SEC	GIS Data Structures	Types (spatial and non- spatial), raster and vector data structure	4	4 class lectures
4 <sup>TH</sup> SF		Rice), tea, rubber and horticulture	Intensive farming (rice), plantation farming (tea and rubber), horticulture	6	6 class lectures
	4 <sup>th</sup> Sem -GE (Practical)	Topographical maps	Interpretation of topographical map of India; Relief	3	3 class lectures
TER.	6 <sup>th</sup> Sem - DSE (Theory)	Climate change and vulnerability	Physical, social and economic vulnerability	6	6 class lectures
SEMESTER	6 <sup>th</sup> Sem - DSE (Practical)	Project report	Secondary data collection	2	2 class lectures
6 <sup>TH</sup> SE		GIS Data Structures	Types (spatial and non- spatial), raster and vector data structure	4	4 class lectures

		2 <sup>nd</sup> Sem -MAJOR	Urban landuse	Urban landuse		
				and morphology:		
		(Theory)	and morphology	Concentric zone theory,	9	9 class lectures
			1 0,	Sector theory and Multiple		
				nuclei theory		
				Polar Zenithal		
		2 <sup>nd</sup> Sem -MAJOR	Map projection	Stereographic Projection	3	3 class lectures
	SEMESTER	(Practical)	Trup projection	and Polar Zenithal		S class lectares
		(=======)		Orthographic Projection		
		2 <sup>nd</sup> Sem -SEC	Global initiatives in	Stockholm conference and		
	ES	(Theory)	sustainable	Earth Summit (Rio 1992)	6	6 class lectures
	Į Į	()	development			2 21022 10000100
	SE	2 <sup>nd</sup> Sem -SEC	Project Report	Project Report	2	2 class lectures
	2 <sup>ND</sup>	(Practical)	Troject Iteport	Troject respon	_	2 01465 10044105
	7	(======)	Wind systems,	Wind systems and		
		2 <sup>nd</sup> Sem-MINOR	precipitation	precipitation	6	6 class lectures
		(Theory)	Cyclones, Climate	types; Cyclones and anti-		
			change	cyclones; Climate change		
			8	Polar Zenithal Gnomonic		
		2 <sup>nd</sup> Sem-MINOR	Map projection	Projection and Simple	3	3 class lectures
		(Practical)	11 3	Conical Projection with		
APRIL		(=======)		one standard parallel		
		4 <sup>th</sup> Sem-DSC	Functions of Spatial	Information retrieval;		
	SEMESTER	(Theory)	information system	Topological	6	6 class lectures
			J	modelling		
		4 <sup>th</sup> Sem - DSC	Statistical techniques	Measures of central	2	2 class lectures
		(Practical)	•	tendency		
		4 <sup>th</sup> Sem - SEC	GIS Data Structures	GIS Data Analysis: Input;	4	4 class lectures
				geo-referencing; editing		
				and output		
	EV	4 Schi-OL	Industrial location, classification of industries	Factors of industrial	6	6 class lectures
	l			location, types of		
	4 <sup>TH</sup>			industries, distribution of		
				Iron & Steel industry		
		.1		Interpretation of		
		4 <sup>th</sup> Sem -GE	Topographical maps	topographical map of	2	2 class lectures
		(Practical)		India; Drainage &		
		41.		Natural Vegetation,		
	<b>~</b>	6 <sup>th</sup> Sem - DSE	Impact of Climate	Agriculture and water;	6	6 class lectures
	I E	(Theory)	Change	flora and fauna		
	ES	6 <sup>th</sup> Sem - DSE	Project report	Secondary data collection	2	2 class lectures
	SEMESTER	(Practical)				
	SE	+1-		GIS Data Analysis: Input;		
	9	6 <sup>th</sup> Sem - SEC	GIS Data Structures	geo-referencing; editing	4	4 class lectures
	9	and a server	Q ::1	and output		
	SEMESTER	2 <sup>nd</sup> Sem -MAJOR	Settlement	Settlement hierarchies;		0.1.1.
_ /		(Theory)	hierarchies, Primate	Concept of Primate city	0	8 class lectures
MAY			city and Rank size	and Rank size rule;	9	& 1 PPT based
Σ	SE		rule; Central place	Central place theory by W.		class
	2 <sup>ND</sup>	and a MATOR	theory	Christaller		
	7	2 <sup>nd</sup> Sem -MAJOR		Mathematical / graphical		

		(Practical)	Map projection	construction of	3	3 class lectures
		(=======)		Cylindrical Equal Area		with signature
				Projection and Mercator		
				Projection		
				India's progress with		
		2 <sup>nd</sup> Sem -SEC	Millennium	respect to MDGs; Future	6	6 class lectures
		(Theory)	Development Goals	trends and challenges of	Ü	o class icetares
		(Theory)	Development doub	sustainable development		
		2 <sup>nd</sup> Sem -SEC	Project Report	Project Report	2	2 class lectures
			r roject Keport	Floject Report	2	2 class lectures
		(Practical)		Distribution of		
			Distribution of			
		and a Marion	Distribution of	temperature and salinity of		
		2 <sup>nd</sup> Sem-MINOR	temperature and	ocean water; Ocean		
		(Theory)	salinity; Ocean	currents:	6	6 class lectures
			currents:	Causes, types and their		
				distribution over the		
				Indian Ocean		
				Simple Conical Projection		
		2 <sup>nd</sup> Sem-MINOR	Map projection	with one standard parallel	3	3 class lectures
		(Practical)		and Cylindrical Equal		
				Area Projection.		
		4 <sup>th</sup> Sem-DSC	Functions of Spatial	Networks; overlay; data	6	6 class lectures
	<b>~</b>	(Theory)	information system	output		
		4 <sup>th</sup> Sem - DSC	Statistical techniques	Measures of dispersion	2	2 class lectures
		(Practical)	1	1		
				Land use mapping; urban		
		4 <sup>th</sup> Sem - SEC	Application of GIS	sprawl analysis; forests	4	4 class lectures
	S			monitoring		
	SEMESTER		Cotton Textile	Distribution of Cotton		
	E	4 <sup>th</sup> Sem-GE	industry & Growth	Textile industry &	6	6 class lectures
		(Theory)	and distribution of	Growth and distribution of	Ü	o class lectares
	<b>4</b> TH	(Theory)	population	population		
			роришноп	Interpretation of		
		4 <sup>th</sup> Sem -GE	Topographical maps	topographical map of	2	2 class lectures
		(Practical)	1 opograpinear maps	India; Transport &	2	2 01033 10010103
		(Tractical)		Communication		
			Climate Change &	Human health &		
		6 <sup>th</sup> Sem - DSE			6	6 class lectures
			Adaptation and mitigation to climate	Adaptation and mitigation	O	o class lectures
	K.	(Theory)		to climate change		
	SEMESTER	6 <sup>th</sup> Sem - DSE	change	Field visit and data	2	2 -1 1
	ES		Project report		2	2 class lectures
	Z	(Practical)		analysis		
	SE	41.		Land use mapping; urban	4	4 class lectures
	9	6 <sup>th</sup> Sem - SEC	Application of GIS	sprawl analysis; forests		
	9			monitoring		
	K.	2 <sup>nd</sup> Sem -MAJOR	Central place theory	Central place theory by A.	9	9 class lectures
	Ţ	(Theory)		Losch and revision		
Ä	ES	2 <sup>nd</sup> Sem -MAJOR	Map projection	Map projection	3	3 class lectures
JUNE	SEMESTER	(Practical)				
		,		India's progress with		
	2 <sup>ND</sup>	2 <sup>nd</sup> Sem -SEC	Millennium	respect to MDGs; Future	6	6 class lectures
	1 ` •		1,1111011111uiii	respect to minos, rutare		o class lectares

	(Theory)	Development Goals	trends and challenges of sustainable development		
	2 <sup>nd</sup> Sem -SEC (Practical)	Project Report	Project Report	2	2 class lectures
	2 <sup>nd</sup> Sem-MINOR (Theory)	Coral reefs and theories of reef formation	Coral reefs and theories of reef formation after Darwin and Daly; Sea level change	6	6 class lectures
	2 <sup>nd</sup> Sem-MINOR (Practical)			3	Doubt clearing sessions
	4 <sup>th</sup> Sem-DSC (Theory)	Application of SIT	Application of SIT in different fields	6	Preparation of final Exams
TER	4 <sup>th</sup> Sem - DSC (Practical)			2	Preparation of final Exams
SEMESTER	4 <sup>th</sup> Sem - SEC			4	Doubt clearing sessions
4 <sup>TH</sup> SI	4 <sup>th</sup> Sem-GE (Theory)	Population	Characteristics of population	6	Doubt clearing sessions
	4 <sup>th</sup> Sem -GE (Practical)	Topographical maps	Revision	2	Doubt clearing sessions
TER	6 <sup>th</sup> Sem - DSE (Theory)	Climate change	Adaptation and mitigation to climate change	6	Doubt clearing session
SEMESTER	6 <sup>th</sup> Sem - DSE (Practical)	Project report	After field survey & data interpretation	2	Final sheets signature
(S <sub>HL</sub> 9	6 <sup>th</sup> Sem - SEC		•	2	Preparation of final Exams

Signature of the Teacher