AZAD HIND FOUZ SMRITI MAHAVIDYALAYA

Dept. of Geography

Syllabus structuring & lesson plan(odd plan)

2022-23 (CBCS)

July-December 2022-23

1st Semester

GEO-A-CC-1-01-TH& P – Geotectonics and Geomorphology

Unit I: Geotectonics (TH/P)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examinat ion
1.1TH	Earth's tectonic and structural evolution with reference to geological time scale	НМК	July	TH (lecture method using ppt &interactive discussion)	Theoretical class of practical units Identification of rocks & minerals	Short questions	
2TH	Earth's interior with special reference to seismology. Isostasy :Models of Airy, Pratt and their applicability	НМК	July	TH (lecture method using ppt & interactive discussion		Short questions	
3ТН	Plate Tectonics as a unified theory of global tectonics: Processes and landforms at plate margins and hotspots	HMK	August	TH (lecture method using ppt & interactive discussion		MCQ	
4TH	. Folds and Faults—origin and types	HMK	September	TH (lecture method using ppt & interactive discussion		MCQ	
5.1P	Measurement of dip and strike using clinometers	НМК	July		Practical (Geo lab-21)	Practical examination with Clinometers	
6.2P	mineral samples: Bauxite, calcite, chalcopyrite, feldspar, galena, gypsum, hematite, magnetite, mica, quartz, talc, tourmaline &) rock samples: Granite, basalt, dolerite, laterite, limestone, shale, sandstone, conglomerate, slate, phyllite, schist, gneiss, quartzite, marble	НМК	July		Practical (Geo lab-21)	Viva on mineral & rock characteristics	

73.TH	Delineation of drainage basins	RBM	July	TH (lecture method using ppt & interactive discussion		MCQ	
8.4TH	hypsometric curve	RG	July	TH (lecture method using ppt & interactive discussion		MCQ	
9.3.P	Extraction and interpretation of geomorphic information from Survey of India 1:50k topographical maps of plateau region: Delineation of drainage basins, construction of relief profiles (superimposed, projected and composite), relative relief map, slope map (Wentworth's method), stream ordering (Strahler) and bifurcation ratio on a drainage basin	RBM	July to October		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
10.3.P	. Construction of hypsometric curve and derivation of hypsometric integer from Survey of India 1:50k topographical maps of plateau region	RG	July to October		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	

Unit II: Geomorphology (TH& P)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
2.1TH	Degradational processes: Weathering, mass wasting and resultant landforms.	RG	July	TH (lecture method using ppt & Interactive discussion)		Short questions, MCQ & Viva	
2TH	Processes of entrainment, transportation and deposition by different geomorphic agents. Role of humans in landform development	RBM	July	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
3ТН	Development of river network and landforms on uniclinal and folded structures. Surface expression of faults.	RBM	August	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
4TH	Development of river network and landforms on granites, basalts and limestones	RBM	August	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
5TH	. Coastal processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
6ТН	Glacial and glacio-fluvial processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
9TH	Aeolian and fluvio-aeolian processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
10TH	Role of time and systems approach in geomorphology. Models on landscape evolution: Views of Davis, Penck, King and Hack	RG	September& October	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
							Test examination in November 2022-23

GEO-A-CC-1-02-TH&P – Cartographic Techniques Unit I&2:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examinatio n
2.3.1	. Maps: Components and classification	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
2	Concept and application of scales: Plain, comparative, diagonal and Vernier	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
3	Coordinate systems: Polar and rectangular	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions	
4	Concept of generating globe	HMK	August	TH (lecture method using ppt & interactive discussion)		Short questions	
5	Grids: Angular and linear systems of measurement	HMK	August	TH (lecture method using ppt & interactive discussion)		Short questions	
6	. Bearing: Magnetic and true, whole-circle and reduced	HMK	Septem ber	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
7	. Concept of geoid and spheroid with special reference to Everest and WGS-84	HMK	Septem ber	TH (lecture method using ppt & interactive discussion)		Short questions	
8	Map projections: Classification, properties and uses	RBM	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
9	Concept and significance of UTM projection	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions	
10	. Representation of data using dots and proportional circle	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions	
11	Representation of data using isopleth and choropleth	RG	August	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
12	Survey of India topographical maps: Reference scheme of old and open series. Information on the margin of maps	RBM	August	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
2.4.1	Graphical construction of scales: Plain, comparative, diagonal and Vernier		Septem ber		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	Construction of projections: Polar Zenithal		Septem		Practical (Short questions &	

	Stereographic, Simple Conic with one standard parallel, Bonne's, Cylindrical Equal Area, and Mercator's	ber	Geo lab-21) & application room no 19 (tracing unit) examinations.	
3	Thematic maps: Proportional squares, pie diagrams with proportional circles, dots and spheres	Septem ber	Practical (Geo lab-21) & application room no 19 (tracing unit) Short questions & application oriented short examinations.	
4	Thematic maps: Choropleth, isopleths, and chorochromatic maps	oct	Practical (Geo lab-21) & application room no 19 (tracing unit) criented short examinations.	Test examinatio n in November 2022-23

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Dept. of Geography

Syllabus structuring & lesson plan

2022-23 July to December) (Uneven semester) 3rd Semester

GEO-A-CC-3-05-TH – Climatology (TH & P)

Unit I: Elements of the Atmosphere

Unit	Section	Teach	Time frame	Theory	Practical	CIE	Internal
		er					examination
1	Nature, composition and layering of the	RBM	July	TH (lecture method using ppt		MCQ	
	atmosphere			& interactive discussion)			
2	Isolation: Controlling factors. Heat budget of the	RBM	July	TH (lecture method using ppt		MCQ	
	atmosphere		-	& interactive discussion)			
3	Temperature: horizontal and vertical distribution.	RBM	August	TH (lecture method using ppt		MCQ	
	Inversion of temperature: types, causes and			& interactive discussion)			
	consequences			,			
4	Overview of climatechange:Greenhouse effect.	RBM	August	TH (lecture method using ppt		MCQ	
	Formation, depletion and significance of the ozone		J	& interactive discussion)			
	layer			,			
1P	Measurement of weather elements using analogue	RBM	July to		Practical (Geo	Short questions &	
	instruments: Mean daily temperature, air		october		lab-21) & room	application oriented	
	pressure, relative humidity, rainfall				no 19 (tracing	short examinations.	
	, , , , , , , , , , , , , , , , , , , ,				unit)		
2P	Interpretation of a daily weather map of India	RBM	July to		Practical (Geo	Short questions &	
	(any two): Pre-Monsoon, Monsoon and Post-		october		lab-21) & room	application oriented	
	Monsoon				no 19 (tracing	short examinations.	
					unit)		
3P	Construction and interpretation of hythergraph	RG	July to		Practical (Geo	Short questions &	
	and climograph		october		lab-21) & room	application oriented	
	_				no 19 (tracing	short examinations.	
					unit)		
4P	Construction and interpretation of wind rose	RG	July to		Practical (Geo	Short questions &	Test
	_		october		lab-21) & room	application oriented	examination
					no 19 (tracing	short examinations.	in December
					unit)		<u>2022-23</u>

Unit II: Atmospheric Phenomena and Climatic Classification

Unit	Section	Teac	Time	Theory	Practical	CIE	Internal
		her	frame				examination
2.5	Condensation: Process and forms. Mechanism of	RG	July	TH (lecture method using		MCQ&	
	precipitation: Bergeron-Findeisen theory,			ppt & interactive discussion)		Short	
	collision and coalescence. Forms of precipitation					questions	
6	Air mass: Typology, origin, characteristics and	RG	July	TH (lecture method using		MCQ&	
	modification			ppt & interactive discussion)		Short	
						questions	
7	Fronts: Warm and cold, frontogenesis and	RG	July	TH (lecture method using		MCQ&	
	frontolysis			ppt & interactive discussion)		Short	
	· ·			,		questions	
8	Weather: Stability and instability, barotropic	RG	August	TH (lecture method using		MCQ	
	and baroclinic conditions			ppt & interactive discussion)			
9	Circulation in the atmosphere: Planetary winds,	RG	August	TH (lecture method using		MCQ	
	jet streams, index cycle			ppt & interactive discussion)			
10	Atmospheric disturbances: Tropical and mid-	RG	Septem	TH (lecture method using		MCQ	
	latitude cyclones, thunderstorms		ber	ppt & interactive discussion)			
11	Monsoon circulation and mechanism with	RG	Septem	TH (lecture method using		MCQ&	
	reference to India		ber	ppt & interactive discussion)		Short	
						questions	
12	Climatic classification after Thornthwaite	RG	October	TH (lecture method using		MCQ&	Test examination in
				ppt & interactive discussion)		Short	December 2022-23
				rr and an analysis		questions	
						1	Sign of final lab
							work in December
							2022-23

GEO-A-CC-3-06-TH – Hydrology and Oceanography (TH) Unit-I: Hydrology

			Cint	1. Hyurology			
Unit	Section	Teacher	Time	Theory	Practi	CIE	Internal
			frame		cal		examination
3.1	Systems approach in hydrology.	HMK	July	TH (lecture method using		MCQ&	
	Global hydrological cycle: Its			ppt & interactive		Short	
	physical and biological role			discussion)		questions	
2	Run off: controlling factors.	HMK	July	TH (lecture method using		MCQ&	
	Infiltration and			ppt & interactive		Short	
	evapotranspiration. Run off			discussion)		questions	
	cycle						
3	Drainage basin as a	HMK	August				
	hydrological unit. Principles of						
	water harvesting and watershed						
	management						
4	Groundwater: Occurrence and	HMK	August	TH (lecture method using		MCQ&	
	storage. Factors controlling			ppt & interactive		Short	
	recharge, discharge and			discussion)		questions	
	movement						

Unit-II: Oceanography:

Unit	Section Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.5	Major relief features of the ocean floor: Characteristics and origin according to plate tectonics	RG	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
6	Physical and chemical properties of ocean water	RG	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
7	Water mass, T–S diagram	RG	August	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	

8	Air-Sea interactions, ocean	RG	August	TH (lecture	MCQ& Short	
	circulation, wave and tide			method using ppt &	questions	
				interactive		
				discussion)		
9	Ocean temperature and salinity:	RG	September	TH (lecture	MCQ& Short	
	Distribution and determinants			method using ppt &	questions	
				interactive		
				discussion)		
10	Coral reefs: Formation,	RBM	July	TH (lecture	MCQ& Short	
	classification and threats			method using ppt &	questions	
				interactive		
				discussion)		
11	Marine resources: Classification	RBM	August	TH (lecture	MCQ& Short	
	and sustainable utilization			method using ppt &	questions	
				interactive	_	
				discussion)		
12	Sea level change: Types and	RBM	September	TH (lecture	MCQ& Short	Test
	causes		_	method using ppt &	questions	examination
				interactive	-	in December
				discussion)		2022-23
				,		Sign of final
						lab work in
						December
						2022-23

GEO-A-CC-3-07-TH – Statistical Methods in Geography (TH)
Unit I: Frequency Distribution and Sampling & Unit II: Numerical Data Analysis

Uni	Section	Teacher	Time frame	Theory	Practic	CIE	Internal
<u>t</u>					al	3.500.0.03	examination
3.7. 1	Importance and significance of statistics in Geography	HMK	July	TH (lecture method using ppt& interactive discussion)		MCQ& Short questions	
2	Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal, intervaland ratio)	HMK	July	TH (lecture method using ppt& interactive discussion)		MCQ& Short questions	
3	Sources of geographical data for statistical analysis	HMK	August	TH (lecture method using ppt& interactive discussion)		MCQ& Short questions	
4	Collection of data and formation of statistical tables	HMK	August	TH (lecture method using ppt &interactive discussion)		MCQ& Short questions	
5	Sampling: Need, types, and significance and methods of random sampling	HMK	September	TH (lecture method using ppt &interactive discussion)		MCQ& Short questions	
6	Theoretical distribution: Frequency, cumulative frequency, normal and probability	HMK	July	TH (lecture method using ppt &interactive discussion)		MCQ& Short questions	
7	Central tendency: Mean, median, mode, partition values	HMK	August	TH (lecture method using ppt &interactive discussion)		MCQ& Short questions	
8	Measures of dispersion range, mean deviation, standard deviation, coefficient of variation	HMK	September	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
9	Association and correlation: Rank correlation, product moment correlation	HMK	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
10	Regression: Linear and non-linear	HMK	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
11	Time series analysis: Moving average	HMK	August	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
12	Hypothesis testing: Chi-squared test and T-test	HMK	August	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	

GEO-A-CC-3-06-P – Hydrology and Oceanography Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.6.1 P	Construction and interpretation of rating curves	RG	July		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	Construction and interpretation hydrographs and unit hydrographs	RBM	July		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3	Monthly rainfall dispersion diagram (Quartile method), Climatic water budget, and Ergograph	RG	Augus t		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4	Construction of Theissen polygon from precipitation data	НМК	Augus t		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in December 2022-23
							Sign of final lab work in December 2022-23

GEO-A-CC-3-07-P – Statistical Methods in Geography Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.7.1 P	Construction of data matrix with each row representing an areal unit mouzas / towns) and corresponding columns of relevant attributes	НМК	July		Practical (RS-GIS Lab) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	Based on the above, a frequency table, measures of central tendency and dispersionwould be computed and interpreted using histogram and frequency curve	HMK	August		Practical (RS-GIS Lab) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3	From the data matrix, a sample set (20%) would be drawn using random, systematic andstratified methods of sampling and the samples would be located on a map with an explanation of the methods used	HMK	September		Practical (RS-GIS Lab) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4	Based on of the sample set and using two relevant attributes, a scatter diagram and linear regression line would be plotted and residual from regression would be mapped with a short interpretation	HMK	October		Practical (RS- GIS Lab) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in December 2022-23
							Sign of final lab work in December 2022-23

GEO-A-SEC-A-3-02-TH – Tourism Management (TH)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
A-3.1	Scope and Nature: Concepts and issues,	RBM	July	TH (lecture		MCQ& Short	
	tourism, recreation and leisure inter-relations			method using ppt &		questions	
				interactive			
				discussion)			
2	Factors influencing tourism, Types of	RBM	August	TH (lecture		MCQ& Short	
	Tourism: Ecotourism, cultural tourism,			method using ppt &		questions	
	adventure tourism, medicaltourism,			interactive			
	pilgrimage, international, national			discussion)			
3	Use of information on factors (Historical,	RG	September	TH (lecture		MCQ& Short	
	natural, socio-cultural and economic;			method using ppt &		questions	
	motivating factors forpilgrimages) to plan			interactive			
	destination marketing; tourism products;			discussion)			
	niche tourism planning						
4	Tourism impact assessment, Sustainable	RG	October	TH (lecture		MCQ& Short	
	tourism, Information Technology and			method using ppt &		questions	
	Tourism, Tour operationsplanning and			interactive			
	guiding			discussion)			
5	Increasing Global tourism; Tourism in India:	RBM	October	TH (lecture		MCQ& Short	Test examination in
	Tourism infrastructure, access, planning for			method using ppt &		questions	December 2022-23
	different budgets for case study sites of			interactive			
	Western Himalayas, Goa, Chilka/ Vembanad,			discussion)			
	Jaipur						

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Dept. of Geography

Syllabus structuring & lesson plan

2022-23 (July to December) (Uneven semester) <u>5th Semester</u>

GEO-A-CC-5-11-TH – Research Methodology and Fieldwork \Box

Unit I: Research Methodology (TH)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
1.1TH	Research in Geography: Meaning, types and significance	RBM	July	TH (lecture method using ppt & interactive discussion)		Short questions	
1.2TH	Literature review and formulation of research design	RBM	July	TH (lecture method using ppt & interactive discussion)		Short questions	
1.3TH	Defining research problem, objectives and hypothesis	RBM	August	TH (lecture method using ppt & interactive discussion)		MCQ	
1.4TH	Research materials and methods	RBM	September	TH (lecture method using ppt & interactive discussion)		MCQ	
1.5TH	Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords	RBM	September	TH (lecture method using ppt & interactive discussion			
1.6TH	Plagiarism: Classification and	RBM	September	TH (lecture method using ppt			

prevention		& interactive discussion		

Unit II: Field work (TH)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examinatio n
2.1TH	Fieldwork in Geographical studies: Role and significance. Selection of study area and objectives. Pre-field academic preparations. Ethics of fieldwork	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions, MCQ & Viva	
2.2TH	Field techniques and tools: Observation (participant, non-participant), questionnaires (open, closed, structured, non-structured). Interview	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions MCQ & Viva	
2.3TH	Field techniques and tools: Landscape survey using transects and quadrants, constructing a sketch, photo and video recording[RG	August	TH (lecture method using ppt & interactive discussion)		Short questions MCQ & Viva	
2.4TH	Positioning and collection of samples. Preparation of inventory from field data	RG	August	TH (lecture method using ppt & interactive discussion)		Short questions MCQ & Viva	

2.5TH	Post-field tabulation, processing and	RG	September	TH (lecture method	Short questions	
	analysis of quantitative and qualitative			using ppt & interactive	MCQ & Viva	
	data			discussion)		
2.6TH	Fieldwork: logistics and handling of	RG	September	TH (lecture method	Short questions	
	emergencies			using ppt & interactive	MCQ & Viva	
				discussion)		

GEO-A-CC-5-11-P-Research Methodology and Fieldwork Lab-

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Intern al exami nation
2.1.1	Each student will prepare a report based on primary data collected from field survey and secondary data collected from different sources.	HMK.RBM,RG	July		GEO LAB(19)	Short questions& MCQ & Viva	
2.1.2	Students will select either one rural area (<i>mouza</i>) or an urban area (municipal ward) for the study, with the primary objective of evaluating the relation between physical and cultural landscape.	HMK.RBM,RG	July		GEO LAB(19)	Short questions& MCQ & Viva	
2.1.3	Aspecificproblemoraspecialfeatureshouldbeidentifiedbasedo nwhich,the study area will be selected.	HMK.RBM	July		GEO LAB(19)	Short questions	

2.1.4	The report should be handwritten in English on A4 size paper in candidate's own words within 5,000 words (Introductory Chapter: 1000 words; Physical Aspects: 1500 words; Socio-economic Aspects: 1500 words; Concluding Chapter: 500 words, approximately) excluding tables, photographs, maps, diagrams, references and appendices.	HMK.RBM	August	GEO LAB(19)	Short questions	
2.1.5	Photographs, maps and diagrams should not exceed 15pages.	HMK.RBM		GEO LAB(19)		
2.1.6	A copy of the bound report, duly signed by the concerned teacher, will be submitted during examination.	HMK.RBM		GEO LAB(19)		
2.1.7	The field work and post-field work will include:	HMK.RBM		GEO LAB(19)		
	a. Collection of primary data on physical aspects (relief and soil) of the study area. Students should use survey instruments like prismatic compass, dumpy level, Abney level or clinometers where necessary.					
	b. Collection of soil samples from different land cover land use regions of the study area for determining pH and NPK values with help of a soil kit.					
	c. Collection of socio economic data, at the household level (with the help of a questionnaire) in the selected study area.					
	d. Plot to plot land use survey for preparation of a land use map, covering whole or part of the selected area.					
	e. Visit to different organizations and departments for					

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	collection of secondary data.					
	f. Any other survey relevant to the objective of the study.					
2.1.8		HMK.RBM,RG		GEO		
2.1.0		THVIK.RDIVI,RO				
	The Field Report should contain the following sections (a-			LAB(19)		
	e).					
	a. Introduction: Study area extent and space relations,					
	reasons for selection of the study area on the basis of a					
	· · · · · · · · · · · · · · · · · · ·					
	specific problem or special feature, objectives, methods of					
	data collection, analyses and presentation, sources of					
	information,etc.					
	b. Physical aspects: Litho logy and geological structure,					
	relief, slope, drainage, climate, soil, vegetation,					
	environmental issues, proneness to natural hazards, etc.					
	c. Socio-economic aspects:					
	T					
	i Domylation attributes, number say ratio literacy.					
	i. Population attributes: number, sex ratio, literacy,					
	occupational structure, ethnic and religious composition,					
	language, per capita income, etc.					
	ii. Settlement characteristics: Number of houses, building					
	materials, number and size of rooms, amenities, etc.					
	materials, number and size of rooms, amendes, etc.					
	iii. Agriculture: General land use, crop-combination, use of					
	fertilizer and					

	irrigational facilities, production and marketing etc.			
	iv. Other economic activities: Fishing, horticulture, brick-making, household and other industries, etc.			
	d. Conclusions: Relationbetweenphysicalandculturallandscape. Evaluation of problems and prospects. General recommendations.			
	e. Bibliography.			
2.1.9	The students will prepare (i) a chorochromatic land use land cover map on the basis of	HMK.RBM,RG	GEO LAB(19)	
	plottoplotsurvey;(ii)aprofileof250— 1000m,surveyedandplotted,withdifferentland use land cover superimposed on it.			
2.1.10	All sections of the report should contain relevant maps, diagrams and photographs using primary and secondary data, clearly Surveys not relevant for establishing the relation between physical and cultural landscape should be avoided.	HMK.RBM,RG	GEO LAB(19)	

GEO-A-CC-5-12-TH – Remote Sensing, GIS and GNSS

Unit I: Remote Sensing (**TH**)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
1.1TH	Principles of Remote Sensing (RS): Types of RS satellites and sensors	НМК	July	TH (lecture method using ppt & interactive discussion)		Short questions	
1.2TH	Sensor resolutions and their applications with reference to IRS and Land sat missions	НМК	July	TH (lecture method using ppt & interactive discussion)		Short questions	
1.3TH	Image referencing schemes and acquisition procedure of free geospatial data from NRSC / Bhuvan and USGS	НМК	August	TH (lecture method using ppt & interactive discussion)		MCQ	
1.4TH	Preparation of False Colour Composites from IRS LISS-3 and Land sat TM / OLI data.	НМК	September	TH (lecture method using ppt & interactive discussion)		MCQ	
1.5TH	Principles of image interpretation. Preparation of inventories of land use land cover (LULC) features	НМК	September	TH (lecture method using ppt & interactive discussion			

	from satellite images			
1.6TH	Acquisition and utilization			
	of free Digital Elevation			
	Model data: CartoDEM,			
	SRTM and ALOS			

Unit II: Geographical Information Systems and Global Navigation Satellite System

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
2.1TH	GIS data structures: types: spatial and non-spatial, raster and vector	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions	
2.2TH	Principles of preparing attribute tables and data manipulation and overlay analysis	НМК	July	TH (lecture method using ppt & interactive discussion)		Short questions	
2.8TH	Principles and significance of buffer preparation	HMK	July	TH (lecture method using ppt & interactive discussion			
2.9TH	Principles and significance overlay analysis	НМК	July	TH (lecture method using ppt & interactive discussion			

Unit III: Global Navigation Satellite System (GNSS)

3.1 TH	Principles of GNSS positioning and waypoint collection	НМК	July	TH (lecture method using ppt & interactive discussion		
3.2TH	Principles of transferring of GNSS waypoints to GIS. Area and length calculations from GNSS data	HMK	July	TH (lecture method using ppt & interactive discussion		

GEO-A-CC-5-12-P – Remote Sensing, GIS and GNSS Lab

4.1P	Image Georeferencing and enhancement. Preparation of reflectance	HMK	July	GEO LAB 19
	libraries of LULC features across different image bands of IRS L3 or Land			
	sat OLI data			
4.2 P	Supervised image classification, class editing and post-classification	HMK	July	GEO LAB 19
	analysis			
4.3 P	Digitization of features and administrative boundaries. Data attachment,	HMK	July	GEO LAB 19
	overlay and preparation of annotated thematic maps			
4.4 P	Waypoint collection from GNSS receivers and exporting to GIS database	HMK	July	GEO LAB 19

GEO-A-DSE-A-6-01-TH – Fluvial Geomorphology

3.1TH	ScopeandcomponentsofFluvialGeomorphology.Riversashydro	RBM	July	TH (lecture method using ppt &
	systems. Geographers' Approach to study of rivers			interactive discussion
3.2TH	Run off: components and controlling factors. Run off cycle	RBM	July	TH (lecture method using ppt &
				interactive discussion
3.3TH	Models of channel initiation and network development	RBM	July	TH (lecture method using ppt &
	•			

				interactive discussion		
3.4TH	Drainage basin and its significance as a hydrological unit	RBM	July	TH (lecture method using ppt & interactive discussion		
	Linear, areal and altitudinal properties of drainage basin. Horton's stream laws.	RG	July	TH (lecture method using ppt & interactive discussion		
3.5TH	Fundamentals of Rosgen stream classification system	RG	July	TH (lecture method using ppt & interactive discussion		
3.6TH	Fluvialmorphodynamics: Adjustmentof channel forms to tectonic, climatic, sealevel and land use changes	RG	July	TH (lecture method using ppt & interactive discussion		
3.7TH	Large rivers of the tropics: Characteristics and significance	RG	July	TH (lecture method using ppt & interactive discussion		
3.8TH	Fluvial landforms: Terraces, alluvial fans, badlands and accretion topography	RG	July	TH (lecture method using ppt & interactive discussion		
3.9TH	Human intervention on fluvial systems : Types and consequences	RG	July	TH (lecture method using ppt & interactive discussion		
4 TH	Riverbank erosion and river degeneration: Processes, management and impact on land use	RG	July	TH (lecture method using ppt & interactive discussion		
4.1TH	Integrated watershed management: Principles and significance	RG	July	TH (lecture method using ppt & interactive discussion		

GEO-A-DSE-A-6-01-P – Fluvial Geomorphology Lab

5.1P	Computation of channel pattern indices from river plan form	RBM	July	GEO LAB 19	

5.2P	Riverbank erosion: Quantification of eroded area and vulnerability zonation	RG	July	GEO LAB 19
5.3P	Flood hazard zonation from flood frequency analysis	RG	July	GEO LAB 19
5.4P	Analyses of pebbles: Shape indices	RBM	July	GEO LAB 19

3.10 GEO-A-DSE-B-6-05-TH – Cultural and Settlement Geography Unit I: Cultural Geography

6.1TH	Definition, scope and content of cultural geography	RBM	July	TH (lecture method using ppt & interactive discussion	
6.1TH	Development of cultural geography in relation to allied disciplines	RBM	July	TH (lecture method using ppt & interactive discussion	
6.2TH	Cultural hearth and realm, cultural diffusion, diffusion of major world religions and languages	RBM	July	TH (lecture method using ppt & interactive discussion	
6.3TH	Cultural segregation and cultural diversity, culture, technology and development	RBM	July	TH (lecture method using ppt & interactive discussion	
6.4TH	Races and racial groups of the world	RBM	July	TH (lecture method using ppt & interactive discussion	
6.5 TH	Cultural regions of India	RBM	July	TH (lecture method using ppt & interactive discussion	

Unit II: Settlement Geography

7.1 TH	Rural Settlement: Definition, nature and characteristics	RG	July	TH (lecture method using ppt & interactive discussion	
7.2 TH	Morphology of rural settlements: site and situation, layout-internal and external	RG	July	TH (lecture method using ppt & interactive discussion	
7.3 TH	Rural house types with reference to India, Social segregation in rural areas; Census Categories of rural settlements	RG	July	TH (lecture method using ppt & interactive discussion	
7.4 TH	Urban Settlements: Census definition (Temporal) and categories in India	RG	July	TH (lecture method using ppt & interactive discussion	
7.5 TH	Urban morphology: Models of Burgess, Hoyt, Harris and Ullman.	RG	July	TH (lecture method using ppt & interactive discussion	
7.6 TH	City-region and conurbation. Functional classification of cities: Schemes of Harris, Nelson and McKenzie	RG	July	TH (lecture method using ppt & interactive discussion	

$\label{eq:GEO-A-DSE-B-6-05-P-Cultural} \textbf{GEO-A-DSE-B-6-05-P-Cultural} \ \textbf{and} \ \textbf{Settlement} \ \textbf{Geography} \ \textbf{Lab}$

8.1P	Mapping language distribution of India	RBM	July	GEO LAB 19	

8.2P	CD block-wise housing distribution in any district of West Bengal using proportional Square	RG	GEO LAB 19	
8.3P	Identification of rural settlement types from topo sheet	RBM	GEO LAB 19	
8.4P	Social area analysis of a city (Shevky& Bell)	HMK	GEO LAB 19	

LESSON PLAN OF GEOGRAPHY HONOURS FOR THE ACADEMIC SESSION 2020-21 EVEN SESSION

AZAD HIND FOUZ SMRITI MAHAVIDYALAYA

Dept. of Geography

Syllabus structuring & lesson plan

2022-23 (CBCS)

JANUARY TO JUNE 2022-23

2ND SEMETER

GEO-A-CC-2-03- – Human Geography (TH &P)

Unit I & II: Nature and Principles (TH/P)& Society, Demography and Ekistics

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
1.1TH	Nature, scope and recent trends. Elements of human geography	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
2ТН	Approaches to Human Geography: Resource, locational, landscape, environment	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
ЗТН	Concept and classification of race. Ethnicity	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		MCQ	
4TH	Space, society and cultural regions (language and	RBM	MARCH	TH (lecture method using ppt &		MCQ	

	religion)			interactive		
				discussion)		
<i>5TH</i>	Evolution of human	RBM	MARCH	TH (lecture		
	societies: Hunting			method using		
	and food gathering,			ppt &		
	pastoral nomadism,			interactive		
	subsistence farming			discussion		
	and industrial society					
<i>6TH</i>	Human adaptation to	RBM	APRIL	TH (lecture		
	environment: Case			method using		
	studies of Eskimo,			ppt &		
	Masai and Maori			interactive		
				discussion		
<i>7TH</i>	Population growth	RG	MAY	TH (lecture		
	and distribution,			method using		
	composition;			ppt &		
	demographic			interactive		
	transition			discussion		
8TH	Population-resource	RG	JUNE	TH (lecture		
	regions (Ackerman			method using		
				ppt &		
				interactive		
				discussion		
<i>9TH</i>	Development-	RG	JUNE	TH (lecture		
	environment conflict			method using		
				ppt &		
				interactive		
				discussion		
10TH	Types and patterns of	RG	JUNE	TH (lecture		
	rural settlements			method using		
				ppt &		
				interactive		

				discussion		
11TH	Rural house types in India	RG	JUNE	TH (lecture method using ppt & interactive discussion		
12 TH	Morphology and hierarchy of urban settlements	RG	JUNE	TH (lecture method using ppt & interactive discussion		
13P	Spatial variation in continent- or country-level religious composition by divided proportional circles	RBM	JUNE	PR(ROOM NO-22)		
14P	Measuring arithmetic growth rate of population comparing two decadal datasets	RG	JUNE	PR(ROOM NO-22)		
15P	Types of Age-Sex pyramids (progressive, regressive, intermediate and stationary): Graphical representation and analysis	RG	JUNE	PR(ROOM NO-22)		

16P	Nearest neighbour	RBM	JUNE	PR(ROOM		
	analysis from Survey			<i>NO-22</i>)		
	of India 1:50k					
	topographical maps					
	(5' x 5')					

GEO-A-CC-2-0-TH & P – Thematic Mapping and Surveying

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
2.71 TH	Concepts of rounding, scientific notation. Logarithm and anti-logarithm. Natural and log scales	НМК	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
2.72 TH	Concept of diagrammatic representation of data	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
2.73 TH	Preparation and interpretation of	HMK	JANUARY	TH (lecture method using		MCQ	

	geological maps			ppt & interactive discussion)		
2.74 TH	Preparation and interpretation of weather maps	RBM	MARCH	TH (lecture method using ppt & interactive discussion)	MCQ	
2.75 TH	Preparation and interpretation land use land cover maps	HMK	MARCH			
2.76 TH	Preparation and interpretation of socio-economic maps	RBM	MARCH			
2.77TH	Principal national agencies producing thematic maps in India: NATMO, GSI, NBSSLUP, NHO, NRSC / Bhuvan, etc.	HMK	MARCH			
2.78TH	Basic concepts of surveying and survey equipment: Prismatic compass	HMK	APRIL			
2.79 TH	Basic concepts of surveying and survey equipment: Dumpy level	НМК	APRIL			
2.710TH	Basic concepts of surveying and survey equipment:	НМК	APRIL			

	Theodolite				
2.11 TH	Basic concepts of surveying and survey equipment: Abney level	НМК	APRIL		
2.712TH	Basic concepts of surveying and survey equipment: Laser distance measurer	HMK	APRIL		
2.81P	Traverse survey using prismatic compass	HMK	MAY	Practical (Geo lab-21) & room no 19	
2.82P	Profile survey using dumpy Level	HMK	MAY	Practical (Geo lab	
2.83P	Height determination of base accessible and inaccessible (same vertical plane method) objects by theodolite	HMK	MAY	Practical (Geo lab	
2.84P	Interpretation of geological maps with uniclinal structure, folds, unconformity, and intrusions	HMK	JUNE	Practical (Geo lab	

AZAD HIND FOUZ SMRITI MAHAVIDYALAYA

Dept. of Geography

Syllabus structuring & lesson plan

2022-23 (CBCS)

January to June (2021-22) 4TH Semester

GEO-A-CC-4-08-TH – Economic Geography (TH)

Unit I: Concepts:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.1	Meaning and	RBM	January	TH (lecture		MCQ& Short	
	approaches to			method using		questions	
	economic geography			ppt &			
				interactive			
				discussion)			
2	Concepts in economic	RBM	February	TH (lecture		MCQ& Short	

	geography: Goods and services, production, exchange and consumption			method using ppt & interactive discussion)	questions
3	Concept of economic man, theories of choices	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions
4	Economic distance and transport costs	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions

Unit II: Economic Activities:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
4. II. 1	Concept and classification of economic activities	RG	January	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Factors affecting location of economic activity with special reference to agriculture	НМК	February	TH (lecture method using ppt & interactive discussion		MCQ& Short questions	
3	Primary activities: Agriculture, forestry, fishing and mining	RG	February	TH (lecture method using ppt & interactive discussion		MCQ& Short questions	

4	Secondary activities: Classification of manufacturing, concept of manufacturing regions,	RG	March	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
	special economic zones and technology parks					
5	Tertiary activities: Transport, trade and services	RG	January	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
6	Transnational sea-routes, railways and highways with reference to India	RG	February	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
7	International trade and economic blocs	RBM	February	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
8	WTO and BRICS: Evolution, structure and functions	RBM	March	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	Test examination in June 2022-23

GEO-A-CC-4-08-P - Economic Geography Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4-P.1	Choropleth mapping	RBM	January		Practical (Short	
	of state-wide				GEO Lab R-	questions &	
	variation in GDP				21) & room	application	

				no 19 (tracing unit)	oriented short examinations.	
2	State-wide variation in occupational structure by proportional divided circles	RBM	February	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3	Time series analysis of industrial production (India and West Bengal	RG	January	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4	Transport network analysis by detour index and shortest path analysis	RG	February	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in June 2022- 23
						Sign of final lab work in 2022-23

<u>GEO-A-CC-4-09-TH – Regional Planning and Development</u>

Unit I: Regional Planning:

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Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

4.9.1	Concept of regions: Types of regions and their delineation	RBM	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
2	Regional Planning: Types, principles, objectives, tools and techniques	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Regional planning and multi-level planning in India	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Metropolitan concept and urban agglomerations	RBM	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	Test examination in June 2022- 23

Unit II: Regional Development:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

4.9. II.1	Concepts of growth and development, growth versus development Indicators of development:	RG RG	January February	TH (lecture method using ppt & interactive discussion) TH (lecture method using	MCQ& Short questions MCQ& Short	
	Economic, social and environmental			ppt & interactive discussion)	questions	
3	Human development: Concept and measurement	RG	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Theories and models for regional development: Cumulative causation	НМК	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
5	Theories and models for regional development: Stages of development (Rostow), growth pole model (Perroux)	НМК	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
6	Concept and causes of underdevelopment	RG	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	

7	Regional development	RG		TH (lecture	MCQ&	
	in India: Disparity and		March	method using	Short	
	diversity			ppt &	questions	
				interactive		
				discussion)		
8	Need and measures for	RG		TH (lecture	MCQ&	Test
	balanced development		April	method using	Short	examination
	in India			ppt &	questions	in June 2022-
				interactive		23
				discussion)		

GEO-A-CC-4-09-P - Regional Planning and Development Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.9.P-	Delineation of formal	HMK			Practical (Short	
1	regions by weighted		January		GEO Lab R-	questions &	
	index method				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
						examinations.	
2	Delineation of	HMK			Practical (Short	
	functional regions by		February		GEO Lab R-	questions &	
	breaking point				21) & room	application	
	analysis				no 19 (oriented	
	·				tracing unit)	short	
						examinations.	
3	Measurement of	HMK			Practical (Short	
	inequality by location		March		GEO Lab R-	questions &	
	quotient				21) & room	application	

				no 19 (tracing unit)	oriented short examinations.	
4	Measuring regional disparity by Sopher index	НМК	April	Practical (GEO Lab R- 21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in June 2020- 21
						Sign of final lab work in 2022-23

GEO-A-CC-4-10-TH - Soil and Biogeography

Unit I: Soil Geography:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

		HMK		TH (lecture	MCQ&	
4.10.	Factors or soil		January	method using	Short	
I.1	formation. Man as an			ppt &	questions	
	active agent of soil			interactive		
	transformation			discussion)		
		HMK		TH (lecture	MCQ&	
2	Soil profile. Origin		February	method using	Short	
	and profile			ppt &	questions	
	characteristics of			interactive		
	lateritic, podzol and			discussion)		
	chernozem soils			·		
		HMK		TH (lecture	MCQ&	
3	Definition and		March	method using	Short	
	significance of soil			ppt &	questions	
	properties: Texture,			interactive		
	structure and moisture			discussion)		
		HMK		TH (lecture	MCQ&	
4	Definition and		April	method using	Short	
	significance of soil			ppt &	questions	
	properties: pH,			interactive		
	organic matter and			discussion)		
	NPK					
				TH (lecture	MCQ&	
5	Soil erosion and	RG	January	method using	Short	
	degradation: Factors,			ppt &	questions	
	processes and			interactive		
	mitigation measures			discussion)		
				TH (lecture	MCQ&	
6	Principles of soil	RG	February	method using	Short	Test
	classification: Genetic			ppt &	questions	examination
	and USDA. Concept of			interactive		in June 2022-
	land capability and its			discussion)		23

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Unit II: Biogeography:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

4.10. II.1	Concepts of biosphere, ecosystem, biome, ecotone, community and ecology	RBM	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
2	Concepts of trophic structure, food chain and food web. Energy flow in ecosystems	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Classification of world biomes (Whittaker). Geographical extent and characteristics of tropical rain forest, savanna, hotdesert, taiga and coral reef biomes	нмк	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Bio-geochemical cycles with special reference to carbon dioxide and nitrogen	НМК	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
5	Deforestation: Causes, consequences and management	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
6	Biodiversity: Definition, types, threats and	RBM	April	TH (lecture method using ppt &	MCQ& Short questions	Test examination in June 2022-

conservation measures		interactive		23
		discussion)		

GEO-A-CC-4-10-P - Soil and Biogeography Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.10.	Determination of soil	RBM	January		Practical (Short	
P.1	reaction (pH) and				GEO Lab R-	questions &	
	salinity using field kit				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
						examinations.	
2	Determination of soil	RG	February		Practical (Short	
	type by ternary				GEO Lab R-	questions &	
	diagram textural				21) & room	application	
	plotting				no 19 (oriented	
					tracing unit)	short	
						examinations.	
3	Plant species diversity	HMK	March		Practical (Short	
	determination by				GEO Lab R-	questions &	
	matrix method				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
						examinations.	
4	Time series analysis of	HMK	January		Practical (Short	Test
	biogeography data				GEO Lab R-	questions &	examination
					21) & room	application	in June 2022-
					no 19 (oriented	23
					tracing unit)	short	

			examinations.	
				Sign of final
				lab work in
				2022-23

GEO-A-SEC-B-4- -TH – Sustainable Development

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
B.4.1	Sustainable development: Concept, Historical background, components, limitations	RBM	March	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Challenges of sustainable development: Determinants, linkage among sustainable development, environment and poverty	RBM	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	Global environmental issues: Population, income and urbanization, health care, forestand water resources	RG	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Global goals for sustainable development:	RG	May	TH (lecture method using ppt &		MCQ& Short questions	Test examination in June 2022-

Domain, conflict,	interactive	23
crisis and	discussion)	
compromise		

AZAD HIND FOUZ SMRITI MAHAVIDYALAYA

Dept. of Geography

Syllabus structuring & lesson plan

2021-22 (CBCS)

January to June (2021-22) 6TH Semester

GEO-A-CC-6-13-TH-EvolutionofGeographicalThought

Unit I: Nature of Pre Modern Geography:

Un	Section	Teacher	Time	Theory	Prac	CIE	Internal
it			frame				examination
6.1	Development to modern Geography: Contributions of	HMK	January	TH (lecture		MCQ& Short	
3.I.	Greek, Chinese, and Indian geographers			method using		questions	
1				ppt & interactive			
				discussion)			
2	Impact of Dark Age' in Geography and Arab	HMK	Februar	TH (lecture		MCQ& Short	
	contributions		y	method using		questions	
				ppt & interactive			
				discussion)			
3	Geographyduringtheageof'Discovery'and'Exploration'(HMK	Februar	TH (lecture		MCQ& Short	
	contributionsofPortuguese voyages, Columbus, Vasco		y	method using		questions	
	da Gama, Magellan, Thomas Cook)			ppt & interactive			
				discussion)			
4	Transition from cosmography to	HMK	March	TH (lecture		MCQ& Short	Test exam in
	scientific Geography			method using		questions	June 2022-23
	contributions of Bernard			ppt & interactive			
	Varenius and Immanuel Kant).			discussion)			
	Dualism and Dichotomies						
	General vs. Particular, Physical						
	vs.						
	Human, Regionalys. Systematic, Determinismys. Possibilis						
	m,Ideographicvs.Nomothetic)[

Unit II: Foundations of Modern Geography and Recent Trends

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
6.13. II. 1	Evolution of Geographical thoughts in Germany ,France, Britain and United States of America[5] Contributions of Humboldt and Ritter	RBM	January	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Contributions of Richthofen, Hartshorne– Schaeffer,Ratzel, LaBlaché	RBM	February	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	1. Trends of geography in the post World War –II period :Quantitative revolution, systems approach[7] Structuralism and historical materialism	RBM	February	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Changing concept of space with special reference to Harvey	RBM	March	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
5	1. Evolution of Critical Geography: Behavioral ,humanistic and radical[5] Towards postmodernism: Geography in the 21st Century	RBM	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	Test (internal) examination in June 2022-23

GEO-A-CC-6-13-P-Evolution of Geographical Thought Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
13.6. P. 1	Changing Perception of maps of the world (Ptolemy, IbnBatuta, Mercator)	RG	March		Practical (GEO Lab R-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	V.1.00.1
2	Mapping voyages ;Columbus ,Vasco da Gama ,Magellan , Thomas Cook	RG	March		Practical (GEO Lab R-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in June 2021-22. 2022-23
3	Group Presentation of 5– 10 students any selected school of geographical thought	RBM, RG & HMK	March to June		Practical (GEO Lab R-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Sign of final lab work in 2022-23

GEO-A-CC-6-14-TH-HazardManagement

Unit I: Concepts

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
6.14. I.1	Classification of hazards and disasters .Hazard continuum	RBM	February	TH (lecture method using ppt & interactive discussion		MCQ& Short questions	
2	Approaches to hazard study: Risk perception and vulnerability assessment .Hazard paradigms	RBM	March	TH (lecture method using ppt & interactive discussion		MCQ& Short questions	Test (internal) exam in 2022-23
3	Responses to hazards: Preparedness, trauma and	RBM	April	TH (lecture method using ppt & interactive		MCQ& Short questions	

	after math. Resilience and capacity building			discussion)		
4	Hazard mapping: Data and geospatial techniques	RBM	May	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	

Unit II: Hazard-specific Study with Focus on West Bengal and India

Unit	Section	Teacher	Time frame	Theory	Practica 1	CIE	Internal examination
6.14.II.1	Earthquake: Factors, vulnerability ,consequences and management	RG	February	TH (lecture method using ppt & interactive discussion)	•	MCQ& Short questions	
2	Landslide: Factors, vulnerability ,consequences and management	RG	March	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	Tropical Cyclone: Factors, vulnerability, consequences and management	RG	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Flood: Factors, vulnerability ,consequences and management	RG	May	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
5	Riverbank erosion :Factors, vulnerability ,consequences and management	RG	February	TH (lecture method using ppt & interactive		MCQ& Short questions	Test (internal) examination in June 2022-23

				discussion)		
6	Fire: Factors ,vulnerability,	RG	March	TH (lecture	MCQ& Short	
	consequences and			method using ppt	questions	
	management			& interactive		
				discussion)		
7	Biohazard:Classification,vul	RG	April	TH (lecture	MCQ& Short	
	nerability,consequencesandm		F	method using ppt	questions	
	anagement			& interactive		
				discussion)		

GEO-A-CC-6-14-P-HazardManagementLab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
6.14	A Group Project Report is to be	RBM,	January to		Practical (GEO	Short	Test examination in
.P1-	prepared and submitted based on	HMK	May		Lab R-21) & room	questions &	June 2022-23 Sign of
3	any one case study among the	& RG			no 19 (tracing unit	application	final lab work in 2022-
	following hazards from West				& RS-GIS Lab)	oriented	23
	Bengal, incorporating preparedness					short	
	plan, preferably in the vicinity of the					examinations.	
	candidates' institution / district						

GEO-A-DSE-A-6-04-TH-Resource Geography

Unit I: Resource and Development

	ome 1. Resource and Development											
Unit	Section	Teacher	Time frame	Theory	Practi	CIE	Internal examination					
					cal							
A.6.	Natural Resources: Concept	RBM	March	TH (lecture method		MCQ& Short						
04.	and classification		1/20/2 022	using ppt &		questions						
1				interactive								
				discussion)								
2	Approaches to Resource	RBM	April	TH (lecture method		MCQ& Short						
	Utilization :Utilitarian			using ppt &		questions						
	,Conservational ,Community			interactive								
	based adaptive			discussion)								
3	Significance of Resources	RBM	March	TH (lecture method		MCQ& Short						
	:Backbone of Economic growth		102 022	using ppt &		questions						

	and development			interactive		
				discussion)		
4	Pressure on resources	RBM	April	TH (lecture method	MCQ& Short	
	.Appraisal and Conservation of		1	using ppt &	questions	
	Natural Resources			interactive		
				discussion)		
5	Problems of resource	RBM	May	TH (lecture method	MCQ& Short	
	depletion—global scenario			using ppt &	questions	
	(forest, water ,fossil fuels			interactive	_	
				discussion)		
6	Sustainable Resource	RBM	May	TH (lecture method	MCQ& Short	Test (internal)
	Development			using ppt &	questions	examination in June
				interactive		2022-23
				discussion)		

Unit II: Resource Conflict and Management

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
A.6.04.II	Distribution, Utilisation, Proble	RG	March	TH (lecture		MCQ& Short	
.1	msandManagementofMetallic			method using		questions	
	MineralResources:Ironore,Ba			ppt &			
	uxite,copper			interactive			
				discussion)			

2	Distribution, Utilisation, Proble msandManagement of Non-Metallic Mineral Resources: Limestone, Mica, Gypsum	RG	April	TH (lecture method using ppt & interactive	MCQ& Short questions	
3	Distribution, Utilisation, Proble msandManagement of Energy R	RG	March	discussion) TH (lecture method using	MCQ& Short questions	
	esources: Conventional and Non -Conventional			ppt & interactive discussion)	1	
4	Contemporary Energy Crisis and Future Scenario	RG	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
5	Politics of Power resources	RG	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
6	LimitstoGrowthandSustainabl eUseofResources;ConceptofRe sourcesharing	RG	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	Test (internal) examination in June 2022-23

GEO-A-DSE-A-6-04-P-Resource Geography Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
A-6-4-	Mapping of forest cover	HMK	January		Practical (GEO Lab R-	Short	
P.1	from satellite images		-		21) & room no 19 (questions &	
					tracing unit & RS-GIS	application	
					Lab)	oriented	

2	Mapping of water bodies from satellite images	НМК	February	Practical (GEO Lab R-21) & room no 19 (tracing unit & RS-GIS Lab)	short examinations. Short questions & application oriented short examinations.	
3	Decadal changes in state- wise production of coal and iron ore	НМК	February	Practical (GEO Lab R-21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	
4	Computing Human Development Index :comparative decadal change of top five Indian states	НМК	March	Practical (GEO Lab R-21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	Test (internal) examination in June 2022-23
						Sign of final lab work in 2022-23

GEO-A-DSE-B-6-08-TH- Geography of India

Unit I: Geography of India

Jnit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination

B-6-	Physiographic divisions	RG	January	TH (lecture method	MCQ& Short	
8-I-1	with reference to tectonic		•	using ppt & interactive	questions	
	provinces			discussion)		
2	Climate, soil and vegetation	RG	February	TH (lecture method	MCQ& Short	
	:Classification and			using ppt & interactive	questions	
	interrelation			discussion)		
3	Population: Distribution	RG	February	TH (lecture method	MCQ& Short	
	growth, structure and			using ppt & interactive	questions	
	policy			discussion)		
4	Tribes of India with special	RG	March	TH (lecture method	MCQ& Short	
	reference to Gaddi, Toda			using ppt & interactive	questions	
	Santal and Jarwa,			discussion)		
5	Agricultural regions. Green	RG	April	TH (lecture method	MCQ& Short	
	revolution and its			using ppt & interactive	questions	
	consequences			discussion)		
6	Mineral and power	RG	May	TH (lecture method	MCQ& Short	
	resources :Distribution and			using ppt & interactive	questions	
	utilization of iron ore ,coal			discussion)		
	petroleum and natural gas					
7	Industrial development:	RG	May	TH (lecture method	MCQ& Short	
	Automobile and			using ppt & interactive	questions	
	information technology			discussion)		
8	Regionalization of India:	RG	May	TH (lecture method	MCQ& Short	Test (internal)
	Physiographic (R.L.Singh			using ppt & interactive	questions	examination in June
)and economic (P.Sengupta)			discussion)		2022-23

Unit II: Geography of West Bengal

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

B-6-8- II-1	Physical perspectives :Physiographic divisions ,forest and water resources	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
2	Resources :Agriculture ,mining ,and industry	RBM	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Population :Growth ,distribution and human development	RBM	May	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Regional Issues: Darjeeling Hills and Sundarban	RBM	May	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	Test (internal) examination in 2022-23

GEO-A-DSE-B-6-08-P-Geography of India Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
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B-6-8-P- 1	Monthly temperature and rainfall graphs of five select stations from different physiographic regions of India	RG	March	Practical (GEO Lab R-21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	
2	Crop Combination :Comparison of any two contrasting districts in West Bengal	RBM	April	Practical (GEO Lab R- 21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	
3	Annual trends of production :Mineral resources and manufacturing goods over two decades	RG	May	Practical (GEO Lab R- 21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	
4	Composite Index :Comparison of developed and backward states	НМК	May	Practical (GEO Lab R- 21) & room no 19 (tracing unit & RS-GIS Lab)	Short questions & application oriented short examinations.	Test (internal) examination in June 2022-23 Sign of final lab work in
						2022-23