University of Kalyani



Directorate of Open and Distance Learning (DODL) Department of Geography

SYLLABUS

M.A. / M.Sc. COURSE IN GEOGRAPHY

2 Year PG Course (Semester System with Credit and Course)

(With Effect From: 2021-2022)

University of Kalyani Kalyani, Nadia-741235, West Bengal

SEMESTER III

Paper code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voice	Credit	Marks
GEO/CC/T-313	Social Geography, Cultural Geography and Economic Geography	Theory	10	40	4	50
GEO/CC/T-314	Political Geography and Historical Geography	Theory	10	40	4	50
GEO/CC/T-315	Geography of Hazards and Disasters	Theory	10	40	4	50
GEO/DSE/AG/T-316/ GEO/DSE/EG/T-316/ GEO/DSE/UG/T-316/ GEO/DSE/FG/T-316	Agricultural Geography-I (Special Paper)/ Environmental Geography-I (Special Paper)/ Urban Geography-I (Special Paper)/ Fluvial Geomorphology-I (Special Paper)	Theory	10	40	4	50
GEO/CC/P-317	Quantitative Techniques in Geography	Practical	15	60	6	75
GEO/SEC/P-318	Field Report	Practical	5	20	2	25
	Total		<u>60</u>	240	24	300

GEO: Geography, CC: Core Courses, T: Theory, P: Practical, DSE: Discipline Specific Elective, SEC: Skill Enhancement Courses

SEMESTER-III								
Paper Code	Paper	Theory/ Practical	Internal Assessment / Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks		
GEO/CC /T-313	Social Geography, Cultural Geography and Economic Geography	Theory	10	40 (Semester-end Examination)	4	50		

Unit-1: Development of Social Geography; Concept of human ecology; Concept of space: Place, space and locale,

Unit-2: Society: Elements, structure and processes; Social exclusion and inclusion

Unit-3: Geography of inequality: race, ethnicity, gender and caste; Ethno-ecology of PVTGs in India

Unit-4: Welfare Geography: Social well-being, HDI, GEM

Unit-5: Development of Cultural Geography; Concept of cultural ecology

Unit-6: Mosaic of culture, language, religion and customs

Unit-7: Role of technology for the evolution of culture; Cultural landscape; Cultural diffusion

Unit-8: Migration and Diaspora; Indian Diaspora in USA

Unit-9: Concept of agricultural region, Changing perspective of Agriculture; Concept of industrial region, Changing perspective of Industry

Unit-10: Theories and Models of spatial interaction (E. Ullman and M.E.Hurst)

Unit-11: WTO in international trade; Role of GATT in LPG Economy and its impact on Industry and trade; Forward trading and E-commerce

Unit-12: From Export Processing Zone to Special Economic Zone; Exclusive Economic Zone

Mode of Internal Evaluation: Seminar Presentation any aspect of Social /Cultural/Economic Geography

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks			
GEO/CC /T-314	Political Geography and Historical Geography	Theory	10	40 (Semester-end Examination)	4	50			

Unit-1: Basic perspective of Political Geography; Geographical perspectives on formation of State; Concept of frontiers and boundaries

Unit-2: Concept of State after Ratzel and Marx

Unit-3: Colonialism, Imperialism and Federalism; Core-periphery concept

Unit-4: Politico-economic blocs: SAARC, EU and BRICS

Unit-5: Concept of Geopolitics; Geopolitical significance of international water disputes: India and its neighbouring countries; Geopolitics of petroleum

Unit-6: Concept of Electoral Geography; Approaches to the study of electoral politics: Spatial and ethnic behavioural approaches

Unit-7:: Scope and content of Historical Geography; Historical Geography and Historiography

Unit-8: Ancient period: Territorial organization of JANAPADAS in India

Unit-9:: Agriculture, industry, trade and urbanization under the Mughal Empire

Unit-10: Plantation farming and textile industry during Colonial India

Unit-11:: Post- colonial urbanization in India

Unit-12: Partition of India and linguistic formation of state; Deterritorialisation for the formation of new provinces in India in the new millennium

Mode of Internal Evaluation: Class test

SEMESTER-III										
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks				
GEO/CC/T-	Geography of Hazards and			40						
315	Disasters	Theory	10	(Semester-end Examination)	4	50				
Unit-1: Concep	ot and types of hazards and disas	ters								
Unit-2: Assess	ment of risk and vulnerability									
Unit-3: Concep	ot of hazard reduction and disaste	er manageme	ent							
Unit-4: Climat	ic hazards: Tropical cyclones (pr	ediction, pre	caution and mit	igation)						
Unit-5: Marine	hazard: Tsunami (prediction, pr	ecaution and	mitigation)							
Unit-6: Hydrol	ogical hazards: Flash floods in H	Iimalayan Re	egion and flood	s in southern part o	of West Be	engal				
Unit-7: Mounta	ain hazards: Landslide and avala	nche								
Unit-8: Nuclea	r hazards and Radio-active conta	mination								
Unit-9: Plastic	hazards									
Unit-10: Arsen	ic contaminations in Deltaic Be	ngal								
Unit-11: Fluori	de contaminations in western pa	rt of West B	engal							
Unit-12: Role of	of National Disaster Mitigation A	Agency for m	anagement of h	azards and disaste	ers					
Mode of Inter	nal Evaluation: Class test									

	SEMESTER-III										
Paper Code	Paper	Theory/ Practical	Internal Assessment / Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks					
GEO/DSE/AG/ T-316	Agricultural Geography-I: BASIC CONCEPT IN AGRICULTURAL GEOGRAPHY (Special Paper)	Theory	10	40 (Semester-end Examination)	4	50					
	cope and significance of Agrie	-			I						
	es to the study of Agricultura	010	•	•							
	ants of agricultural profile: ph	nysical and no	on-physical det	erminants							
1	of sustainable agriculture										
-	of integrated farming systems										
e e	nce of mixed farming	mina									
-	of organic farming and dry far ral region: concept and evolu	e									
Ũ	es and methods of agricultura		ion								
1	ural systems of the world afte	e	.1011								
e	in agriculture: von Thunen's l	•									
	of precision farming										
-	Evaluation: Research property	osal on any as	nect of Agricul	tural Geography							
		sur on any as	peet of Agricul	iturur Geography							

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks			
GEO/DSE/EG/ T-316	Environmental Geography-I: BASIC CONCEPT (Special Paper)	Theory	10	40 (Semester-end Examination)	4	50			

Unit-1: Environmental studies and Environmental Geography; Nature, scope and content of Environmental Geography

Unit-2: Ecosystem approach in Environmental studies

Unit-3: Structure and function of Ecosystem

Unit-4: Fundamental principles of natural ecology; Principles of human ecology

Unit-5: Concept of environmental system, Environmental balance and Environmental degradation

Unit-6: Carrying capacity of the environment

Unit-7: Bio-geo-chemical cycles: types and significance

Unit-8: Energy flow and balance of energy in the biosphere

Unit-9: Stationary state economy and equilibrium population

Unit-10:Environmentalism in Geography

Unit-11: Approaches to the study of environment: Reductionist, Holistic and Organismic

Unit-12: Environmental philosophy: Spaceship earth, Deep ecology and Gaia-hypothesis

Mode of Internal Evaluation: Research proposal on any aspect of Environmental Geography

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks			
GEO/DSE/UG /T-316	Urban Geography-I: BACKGROUND AND BASIC CONCEPTS (Special Paper)	Theory	10	40 (Semester-end Examination)	4	50			

Unit-1: Emergence of Urban Geography as a discipline: changing approaches and methodological foundations **Unit-2:** Concept of urban

Unit-3: Concept of urbanism and urbanization

Unit-4: History of urbanization in India: Mughal and Colonial period

Unit-5: Patterns and process of urbanization in Independent India

Unit-6: Origin and classification of urban Settlements: Mumford, J.M. Houston, G.Taylor, C.D. Haris and Nelson

Unit-7: Concepts of urban region: Metropolis, Megalopolis, Ecumenopolis, Conurbation, City region

Unit-8: Concepts of Megacity, Sister Towns, Edge Cities

Unit-9: Concepts of Planned Towns, New Towns, Satellite Towns, Green/ Garden Cities,

Unit-10: Changing urban forms: Urban corridor, rural-urban fringe, urban sprawl, counter-urbanization

Unit-11: Urban as a system: City-size distribution (Zipf and Berry) and urban primacy

Unit-12: Concept of urban-rural continuum

Mode of Internal Evaluation: Research proposal on any aspect of Urban Geography

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Mark			
GEO/DS E/FG/T- 316	Fluvial Geomorphology-I: MECHANISM OF FLUVIAL PROCESSES (Special Paper)	Theory	10	40 (Semester-end Examination)	4	50			
Unit-2: Fl adjustable Unit-3: Li length, law Unit-4: Hy Unit-5: R Manning's Unit-6: C branching, Unit-6: C Unit-6: C Unit-7: C Unit-7: C Unit-7: Tr Unit-10: L channel Unit-11: S	cope, nature and significant uvial system: Components and controlling factors inear, Areal and Altitudina v of basin area; ydraulics of channel flow: iver velocity, factors and s equation hannel initiation and Evol lateral expansion assification of natural streat cosion: threshold of erosion cansportation: processes of Deposition: factors contro Sediment deposits: nature a Fluvial processes and forms	s, input outpu Il properties of Stream Energ its distribution ution of chan ams by D. L. an, processes of entrainment, olling deposit	it, Variables of a of drainage basin gy; Types of flow on in open chan nnel pattern, imp Rosgen f erosion, river b bedload transpo tion, depositions	fluvial system: int n; Law of stream n w; type of links, nu nnels; Flow resist portance of headw pank erosion ort dynamics; Char s along the chann	ernal and number an umber of li ance, Ché vard exten unel compe- nel and ac	external d stream nks zy's and sion and			

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment / Evaluation	Examination/ Report/ Viva-Voce	Credit	Marks			
GEO/CC/P- 317	Quantitative Techniques in Geography	Practical	15	60 (Semester-end Examination = 50; Laboratory Note Book + Viva Voce = 5+5=10)	6	75			
-	size, Sampling tech								
-	ot of Probability and	Normal Probabil	ity Distribution						
	ess and Kurtosis								
• •	esis Testing: Parame								
• -	esis Testing: Non Pa	trametric test: C	ni-square test						
Unit-6: Basic N	te Regression Analys	sist linear and ex	nonential						
	•		1	nan's Rank Correlation					
	on of Mean Centre of		-						
Unit-10: Locat		r - r - manon and							
Unit-11: Lorer									
Unit-12: Short	est path analysis by S	Shimbel Index							
Mode of Intern	nal Evaluation: Clas	ss test							

SEMESTER-III									
Paper Code	Paper	Theory/ Practical	Internal Assessment/ Evaluation	Examination/ Report/ Viva- Voce	Credit	Marks			
GEO/SEC/P-318	Field Report	Practical	5	20 (Field Report = 15; Viva Voce = 5)	2	25			

• Each student will prepare an individual Field Report following broad areas:

Physical, socio-cultural, politico-economic issues

Students field work in are required to carry out а comprehensive ٠ a village/mouza/town/C.D.Block/ drainage basin selecting a particular research problem. There should be a clear-cut Problem, background, Objectives, Methodology and Major Findings. The text of the fieldwork should not exceed 5000 words and 15-20 pages of illustrations (A4 Pages).

Mode of Internal Evaluation: Continuous assessment during field survey