

SYLLABUS

for the

M.A. / M.Sc. Course in Geography

**Two Year Post Graduate Course with Choice Based
Credit System**

Semester-II

Session: 2018-2020



Directorate of Open and Distance Learning (DODL)

University of Kalyani

Kalyani

Nadia – 741235

West Bengal

SEMESTER-II

Paper	Group	Course Title	No. of Units	Credit	Marks			Total Hours
					Internal	Sem -end	Total	
GEO205T (OC)	GEO205T(OC).1	Earth and Society	8	2	10	40	50	8
	GEO205T(OC).2	Geography of Resources and Hazards	8	2	10	40	50	8
	GEO205T			16	4	20	80	100
GEO206T	GEO206T.1	Population Geography	8	2	10	40	50	8
	GEO206BT.2	Settlement Geography	8	2	10	40	50	8
	GEO206T			16	4	20	80	100
GEO207T	GEO207T.1	Environmental Issues in Geography	8	2	10	40	50	8
	GEO207T.2	Geography of Hazards and Disasters	8	2	10	40	50	8
	GEO207T			16	4	20	80	100
GEO208P (Prac)	GEO208P.1	Quantitative Techniques in Geography	8	2	10	40	50	8
	GEO208P.2	Field Report	8	2	10	40	50	8
	GEO208P			16	4	20	80	100

SEMESTER-II

[OPEN COURSE] GEO205T (OC) (Total Credit - 4, Total Marks – 100)

GROUP – GEO205T(OC).1: EARTH AND SOCIETY

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-1: Ecological system of the earth- atmosphere, lithosphere, hydrosphere and biosphere

Unit-2: Endogenetic forces- interior of the earth and surface configuration; exogenetic forces and resultant landforms- fluvial and arid landforms

Unit-3: Concept of land and land use; land capability classification, carrying capacity of land

Unit-4: Measuring land surface-concept of scale and map, procedures of land survey and map making using tape and theodolite

Unit-5: Concept of society and space, material and social space, social structure and social processes, cultural realms, cultural diffusion

Unit-6: Rural and urban settlements and its classification

Unit-7: Human Development Index

Unit-8: Sustainable development

GROUP – GEO205T(OC).2: GEOGRAPHY OF RESOURCES AND HAZARDS

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-1: Concept and classification of resources, conventional and non-conventional resources

Unit-2: Distribution of energy resources- coal

Unit-3: Distribution of energy resources- mineral oil

Unit-4: Crisis, conservation and management of resource

Unit-5: Major economic activities- primary, secondary and tertiary activities

Unit-6: Concept of hazards and disasters; Physical hazards: tropical cyclone, flood, land slide with reference to West Bengal

Unit-7: Social hazards: poverty and crime

Unit-8: Management of hazards and disasters

Mode of Internal Examination:

SEMESTER-II

Paper – GEO206T (Total Credit - 4, Total Marks – 100)

GROUP – GEO206T.1: POPULATION GEOGRAPHY

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-1: Scope and content of Population Geography

Unit-2: Sources of population data

Unit-3: Population Geography as distinct from Demography

Unit-4: Theories of population growth

Unit-5: Factors controlling fertility, mortality and migration

Unit-6: Demographic Transition Model; Limits to growth

Unit-7: Population policies – Pro and Anti Natal

Unit-8: Comparative study of population policies between India and China

GROUP – GEO206T.2: SETTLEMENT GEOGRAPHY

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-9: Concept of Ekistics

Unit-10: Study on settlement hierarchies

Unit-11: Theories and models of settlement study: Central Place, Rank-size Rule and concept of Primacy

Unit-12: Types, pattern and segregation of rural settlements in India

Unit-13: Urban definition: World and India

Unit-14: Urbanization in India as multi-dimensional process

Unit-15: Concept of Million cities, Mega cities, Megalopolis and Ecumenopolis

Unit-16: Urban Sprawl, Urban Renewal and Rural-urban Continuum in Indian context

Mode of Internal Examination:

SEMESTER-II

Paper – GEO207T: (Total Credit - 4, Total Marks – 100)

GROUP – GEO207T.1: ENVIRONMENTAL ISSUES IN GEOGRAPHY

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-1: Concept of resource-population relationship

Unit-2: Types and significance of worldwide contemporary major environmental issues;

Unit-3: Concept of ecological foot print; Sustainable development

Unit-4: Role of IUCN, UNDP, UNEP, IPCC and UNFCCC

Unit-5: Concept of participatory management of forest: Agro forestry, Social forestry and JFM

Unit-6: Wildlife conservation and management: Sanctuaries, National Parks and Biosphere Reserves w.r.t. India

Unit-7: Dams and development – displacement and rehabilitation issues; Environmental implications of River Linking Project

Unit-8: Dimensions of environmental movements in India

GROUP – GEO207T.2: GEOGRAPHY OF RESOURCES AND HAZARDS

(Credit – 2; Marks - 50: Internal Evaluation – 10 + Semester-end Examination - 40)

Unit-9: Concept and types of hazards and disasters

Unit-10: Assessment of risk and vulnerability

Unit-11: Concepts of hazard and disaster management

Unit-12: Climatic hazards: Tropical cyclones (prediction, precaution and mitigation)

Unit-13: Marine/ tectonic hazard: Tsunami (prediction, precaution and mitigation)

Unit-14: Hydrological hazards: Flash floods in Himalayan region and floods in southern part of West Bengal

Unit-15: Sources, impacts and mitigation measures of nuclear hazard and radio-active contamination, CFC and plastic hazard

Unit-16: Sources, impacts and mitigation measures of lead, arsenic and fluoride contaminations

Mode of Internal Examination:

SEMESTER-II

Paper – GEO208P: [Practical] (Total Credit - 4, Total Marks – 100)

GROUP – GEO208P.1: QUANTITATIVE TECHNIQUES IN GEOGRAPHY

(Credit – 2; Marks - 50: Internal Evaluation – 10, Semester-end Examination - 40)

Unit-1: Location of Mean Centre of population and shift over time; Scatter diagram

Unit-2: Pearson's Product-Moment Correlation

Unit-3: Spearman's Rank Correlation

Unit-4: Regression: Least Squares Method

Unit-5: Concept of Probability and Normal Distribution; Skewness and Kurtosis

Unit-6: Hypothesis Testing: t-test, z-test and Chi-square test

Unit-7: Matrix Algebra; Shortest Path Analysis by Shimbel Index

Unit-8: Location Quotient and Lorentz Curve

Mode of Internal Evaluation:

Group - GEO208P.2: Field Report

(Credit – 2; Marks - 50: Internal Evaluation – 10, Semester-end Examination – 30 + 10)

Field Report and Viva-voce

Mode of Internal Examination: