



WEST BENGAL BOARD OF MADRASAH EDUCATION
19, Haji Md. Mohsin Square, Kolkata-700016

Semester Wise Syllabus For Fazil First Year (Class XI)

SUBJECT: GEOGRAPHY(GEGR)

Objectives of H.S. Geography Course

Objective 1: Familiarize with basic concepts and core contents of Geography and examine man environment relationship.

Objective 2: Description and interpretation of spatial pattern of features on thematic maps with location, time and space.

Objective 3: Understanding the physic-cultural relationship with respect to different environmental adaptations.

Objective 4: Apply geographical knowledge and skills of inquiry to emerging situations and problems at different levels, i.e. local, regional, national and international.

Objective 5: develop geographical skills to collect primary data from field survey and preparation of field-based project either manually or using computer-based techniques whichever possible.

Learning outcomes of H.S. Geography Course

LO1: Understanding the Geosystems: Students will accrue a comprehensive understanding of the basics of man-environment interactions at global, regional, and local scales.

LO2: Synthesizing Environmental and Sustainability issues: Students will be able to synthesize social and environmental issues and grasp the know-hows of sustainable development.

LO3: Acquiring Skills of Geographical Analysis: Students will acquire fundamentals of geospatial skills and geographical instrument handling capabilities to analyze geographical problems.

*Aradhana
02/06/24*

P-1

SEMESTER-I

FULL MARKS: 35

CONTACT HOURS: 80 HOURS

COURSE CODE: THEORY

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	34	15
Unit 1	Geography as a discipline: Definition, nature and classification of geography; scope and content of physical geography	03	
Unit 2	I. Origin of Earth: Classical theories (kant, jean and Jeffrey); Modern theory (Big Bang theory) II. Interior of the Earth: Source of information regarding the Earth's interior; Application of Seismology for analyzing Earth's interior; Layering of the earth	09	
Unit 3	Geomorphic process: Endogenic processes- Definition, concept, and types; Volcanicity (definition, concept, causes, and types of volcanicity; associated landforms; global distribution of volcanoes); Earthquake (concept and definition of earthquake related aspects; causes, and consequence; measuring instruments and scale; global earthquake prone zones with special reference to India; Seaquake and Tsunami) Exogenic process- Definition, concept, and types	14	
Unit 4	Weather and Climate: Composition and structure of the Atmosphere: gaseous, liquid, and solid components of atmosphere; Layering of atmosphere based on thermal characteristics and elemental distribution; Importance of Ozonosphere; Causes and consequences of Ozone depletion	08	

*Ansuman
07/6/24*

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF HUMAN GEOGRAPHY	26	12
Unit 1	Scope and Content of Human Geography: Concept of man-environmental relationship; Fields and sub-fields of Human Geography	04	
Unit 2	Economic Geography: Classification of economics activities- Primary, Secondary, Tertiary, Quaternary and Quinary sectors with characteristics and examples Primary Activities: Hunting and gathering; Pastoralism; Agriculture (Subsistence, Commercial, Mixed, Market gardening, and Dairy farming); Production-wise distribution of important cash crop of two globally leading countries (except India)- coffee, sugarcane, and cotton; Mining: types and environmental problems	22	

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: GEOGRAPHY OF INDIA	20	8
Unit 1	India as a country: Geographical location; Size; Administrative setup; Neighbouring countries	02	
Unit 2	India-Structure and Physiography: Physiographic divisions of India with special reference to Tectonic provinces (Peninsular; Extra-peninsular; Indo-Gangetic; Coastal plains and Islands)	10	
Unit 3	India-Drainage systems: Drainage system of India with reference to flow directions and perennality (The Himalayan drainage system; The Peninsular drainage system); Usages and sharing of river water	08	

*Arsham
08/6/24*

SEMESTER-II

FULL MARKS: 35

CONTACT HOURS: 60 HOURS

COURSE CODE: THEORY

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	30	15
Unit 1	Concept of Isostasy: Concept of Isostatic anomalies: Theory of Airy and Pratt; Isostatic Adjustments; Cymatogeny	04	
Unit 2	Geomorphic processes: Endogenic processes- Folding and faulting (mechanism, structure, and types) Exogenic processes- Weathering (Definition, types, and resultant features); Soil forming process and factors; Soil profile development; Soil erosion; Soil conservation and management	12	
Unit 3	Weather and Climate: Climatic Elements- Solar radiation; Heat balance; Temperature distribution (horizontal and vertical); Controlling factors of temperature distribution; Inversion of temperature Atmosphere Circulation- Controlling factors of atmospheric motion; Tri-cellular model; Planetary winds; Zonal winds(Surface-Walker circulation; Upper Air-Jet stream)	10	
Unit 4	Hydrosphere: Modes and occurrence of water on Earth; Global hydrological cycle; Concept of run-off; Drainage basin as a hydrological unit	04	

Aradhana
07/6/24

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF HUMAN GEOGRAPHY	16	12
Unit 1	Secondary Activities - Industry: Classification of Industries; Factors responsible for industrial location; Production-wise distribution pattern of industries (leading two countries worldwide except India)- a) Agro-based: food processing industries b) Sea-based: commercial marine fishing c) Forest-based: paper industries d) Mineral-based: Metallic (Iron and steel); Non-metallic (Petrochemical) e) Manufacturing-based: Automobile	12	
Unit 2	Tertiary Activities: Definition, Classification, Case study (Trade; Transport; Service; Communication; Tourism)	02	
Unit 3	Quaternary Activities: Nature and characteristics of information and Communication Technology (ICT) based industries; Research and Development (R&D) based industries	01	
Unit 4	Quinary Activities: Roles of specialists; decision-makers; consultants, policy formulators	01	

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: GEOGRAPHY OF INDIA	14	8
Unit 1	Indian Climate: Controlling factors of Indian climate; Nature of Indian monsoon; Seasonal variability of weather; Monsoon and Indian Economy; Impact of ENSO Phenomena and global warming on Indian climate	06	
Unit 2	Forest of India: Types of forests; Ecological and economic significance; Programmes and policies of forest management in India	03	
Unit 3	Natural Hazards and Disasters of India: Concept and classification of hazards; Types of disasters; Hazard management approaches (pre-hazard, during occurrence, and post-hazard); Natural disaster management policy; Hazard prone zones of West Bengal	05	

*Abraham
07/10/20*

COURSE CODE: PRACTICAL

FULL MARKS: 30

CONTACT HOURS: 40 HOURS

UNIT No.	Unit Content**	CONTACT HOURS	MARKS
Unit 1	Introduction to Maps: Definition; components; types, importance and uses	02	02
Unit 2	Map Scale: Concept and types of map scales; Graphical scale (Concept of Linear; Comparative; Diagonal; and Vernier scales; Construction of Linear scale)	09	04
Unit 3	Map Projection: Concept of map projection; Classification; Mathematical construction and properties of following projections- a) Polar Zenithal Stereographic b) Simple conical with one standard Parallel c) Mercator's projection	10	05
Unit 4	Interpretation of Topographical Maps: Study of open series topographical maps (1:50000 scale) Preferably of a plateau region; Identification of topographical features using cross section drawings. Identification of break of slopes from cross section drawing and preparation of Broad Physiographic Divisions Map. Typical features identification (Drainage; Natural Vegetation; Transport and Communication; Settlement); Establishment of relationship between different Physical and cultural elements using Transect Chart (Schematic method)	12	06
Unit 5	Interpretation of Indian Daily Weather Maps: Daily Weather Maps of January and July months under following Heads- Pressure condition; Wind condition; Sky condition (cloudiness and precipitation)	05	04
Unit 6	Preparation and presentation of Poster^: Poster related to any one prominent hazard/ disaster (Causes, consequences, Preparedness and Management) with respect to West Bengal	02	04(2+2)
Unit 7	Laboratory Notebook* and Viva voce		05(3+2)

*Ansahman
02/6/24*

* The laboratory notebook should contain A3 sized (42 cm * 29.7 cm) white pages in landscape mode.

^ Poster related to selected topic should be of A1 (59.4 cm x 84.1cm, approximately). Technique of preparing the hardcopy poster can be manual/ digital/ blended. The poster should carry signatures of teachers responsible for supervising the poster preparation.

** Each topic of laboratory notebook should contain the following sub-heads: Statement of the-problem, objectives, materials and methods (with data source), calculations, drawings/ representation (if any), analysis and interpretation.

Tutorial + Remedial + Assignments: 6+10+4=20 Hours (Semester: I+II)

*Assignment
02/6/24*

Semester Wise Syllabus for Fazil Second Year (Class XII)

SUBJECT: GEOGRAPHY (GEGR)

SEMESTER-III

FULL MARKS: 35

CONTACT HOURS: 80 HOURS

COURSE CODE: THEORY

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	34	15
Unit 1	Geotectonic: Continental draft theory according to Alfred Wegner	06	
Unit 2	Geomorphic Process: Exogenic process- Masswasting, Glacial landforms, and Karst landforms	09	
Unit 3	Climate: Water in the atmosphere (Condensation- formation and types, Precipitation-formation and types)	05	
Unit 4	Hydrosphere: Characteristics of ocean floor; Temperature and salinity; Ocean minerals, food, and power; Ocean deposits	09	
Unit 5	Biosphere: Nature, concept and types of ecosystem; Concepts of trophic levels; Food chain and food web	05	

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF HUMAN GEOGRAPHY	18	10
Unit 1	Population: Concept of Demography; Distribution and density of population (worldwide); Determinants and measures of population growth- birth rate, death rate, migration	10	
Unit 2	Settlement: Classification, types and patterns of settlement; Factors determining the types of rural settlement; Functional classification of rural settlement; Problems of rural and urban settlements	08	

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07/6/24

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: GEOGRAPHY OF INDIA	28	10
Unit 1	Population of India: Distribution, density, growth, and composition of population	03	
Unit 2	Water Resources: Water conservation and management; Watershed management and rainwater harvesting; Nature and types of irrigation systems; Sustainable use of water resources	03	
Unit 3	Mineral and Energy Resources: Types, distribution and uses- Mineral resource (Iron Ore, Manganese, Bauxite, Copper, Mica); Conventional energy resource (Coal, Petroleum, Natural Gas, Nuclear Energy); Non-conventional energy resource (Solar, Wind, Tidal, Geothermal, Biogas energy, OTEC)	10	
Unit 4	Agriculture: Importance of agriculture in Indian economy; Concept of crop calendar; Crop rotation; Crop combination; Cropping intensity; Green, white, and Blue Revolution in India; Production-wise distribution of important cash crops (Jute, Cotton, Sugarcane and Tea)	08	
Unit 5	Transport and Communication: Importance of different modes of Transport; Types and importance of personal and mass communication systems	02	
Unit 6	Trade and Economy: Concept; Classification; Bases; Importance	02	

*Arshman
07/6/24*

SEMESTER-IV

FULL MARKS: 35

CONTACT HOURS: 60 HOURS

COURSE CODE: THEORY

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	34	15
Unit 1	Geotectonic: Sea floor spreading; Plate tectonic and associated landforms	06	
Unit 2	Geomorphic Process: Exogenic process- Fluvial landforms; Coastal landforms; Aeolian landforms; Combined works of exogenic processes and associated landforms	10	
Unit 3	Cycle of erosion: The role of WM Davis; Davis's concept of landform evolution; Concept of rejuvenation	03	
Unit 4	Atmosphere: Weather systems and atmospheric disturbances; Climatic classification after Koppen; Concept of climate change	05	
Unit 5	Hydrosphere: Movement of ocean currents and associated environmental effects	06	
Unit 6	Biosphere: Biodiversity- Definition, types, significance; Factors responsible for biodiversity depletion; Strategies and programs of biodiversity conservation	04	

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: FUNDAMENTALS OF HUMAN GEOGRAPHY	12	10
Unit 1	Population Geography: Impact of migration on global demographic changes; Malthusian theory of population growth; Concept of optimum, under, and over population; Demographic Transition Model; Need of population control measures and population policy	09	
Unit 2	Human Development: Concept; definition; measurement (Human Development Index, Concept of human poverty index); and approaches (welfare approach; Amartya Sen's Capability approach)	03	

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07/6/24

UNIT No.	TOPICS	CONTACT HOURS	MARKS
	SUB-TOPIC: GEOGRAPHY OF INDIA	14	10
Unit 1	Indian Industries: <ol style="list-style-type: none"> Agro-based- Food processing Sea-based- Commercial marine fishing Forest-based- Paper industry Mineral-based-Metallic (Iron and steel); Non-metallic (Petrochemical) Manufacturing-based-Automobile Information and communication technology 	07	
Unit 2	Human Settlement and Development in Indian context: Human settlement types in India; Land resources and agricultural planning; Sustainable development in Indian context	02	
Unit 3	Geographical Perspectives on Selected Issues and Problems: <ol style="list-style-type: none"> Water pollution in Ganga Basin- Causes, consequences, and management Air pollution in Kolkata and National Capital Region- Causes, consequences, and management Arsenic pollution in southern West Bengal- Causes, consequences, and management Human-wildlife conflict in Dooars and Sundarbans regions- Causes, consequences and management Land Degradation in Jangalmahal- Causes, consequences and management 	05	

*Abraham
08/6/24*

COURSE CODE: PRACTICAL

FULL MARKS: 30

CONTACT HOURS: 40 HOURS

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit 1	Data processing Using Statistical Techniques: a. Type and source of data b. Tabulation and processing of data; Construction of data array; Frequency distribution table; Histogram, Frequency polygon; and Ogives c. Measures of central tendency- Mean; Median; Mode d. Measures of dispersion-Absolute measures(range,mean deviation, standard deviation); Relative measure (co-efficient of variation)	10	05
Unit 2	Cartograms and Thematic Mapping: a. Bargraphs-Simple; Multiple; Compound b. Divided proportional circles c. Flow chart d. Ombrothermic diagram e. Thematic maps- Dot and sphere; Isopleths; Choropleth	10	05
Unit 3	Application of geographical Instruments: a. Angular measurement using Prismatic Compass (forward and backward bearings) b. Pebble diameter measurement using Slide Caliper (major, minor, and intermediate axes) c. Measurement of strike direction and dip amount using Clinometer Compass d. Six's maximum & minimum thermometer	12	05
Unit 4	Remote Sensing and geographic Information Systems (GIS): a. Remote Sensing- Concept of remote sensing; Definition; Source of energy; Types of sensors; Types of image acquisition platforms; Modern application b. GIS- Introduction to GIS; Hardware and software requirements; Data formats-vector and raster; Concept of data input, editing, analysis, manipulation, and representation	04	05
Unit 5	Preparation and presentation of Field Report: Report based of structured survey schedule on(any one)- a. Household survey b. Market survey c. Traffic survey Note: Student of school in rural area will visit any type of urban centre or unit/Student of school in urban area will visit a rural area (household survey only)	04	05(3+2)
Unit 6	Laboratory Notebook* and Viva voce	-	05(3+2)

*The laboratory notebook should contain A3 sized white pages (42 cm * 29.7 cm) in landscape mode

Tutorial + Remedial + Assignments: 6+10+4=20 Hours (Semester: III+IV)

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07/6/24

Guidelines for Preparation of Field Report

Every student needs to participate in fieldwork and prepare a field report according to the following guidelines:

A. Household Survey:

1. Each Student will prepare a report based on primary data collected from household survey with the help of properly Formulated and structure survey schedule having open ended, double choice and multiple choice questions.
2. Student will select either a rural area/mouza (for school students from urban area) or an urban (at least a class – VI Town as categorized by Census of India) area/municipal ward (for school students from rural area) for the study, with primary objective of demographic and socio – economic information.
3. Each student should survey at least five households selected through simple random sampling without replacement method.
4. The report should be handwritten I A4 sized white pages in candidate's own words. The word limit should be of 500 words excluding table, figures, maps, photographs and appendices.
5. A copy of the field report duly signed by the concerned teacher will be submitted on the date of examination.
6. The field report should contain the following sections – Introduction, Selection of Study Area, Objectives of the study, Methodology, Results and Discussion/ Major Inferences, Conclusions.

B. Market Survey:

1. Each student prepare a report based on primary data collected from market survey with the help of properly formulated and structured survey schedule having open ended, double choice and multiple choice questions.
2. Each student should survey at least five shops selected through simple random sampling without replacement method.
3. The report should be handwritten in A4 sized white pages in candidate's own words. The word limit should be of 500 words excluding table, figures, maps, photographs and appendices.
4. A copy of the field report duly signed by the concerned teacher will be submitted on the date of examination.

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07/6/24*

5. The field report should contain the following sections – Introduction, Selection of Study Area, Objectives of the study, Methodology, Results and Discussion/ Major Inferences, Conclusions.

C. Traffic Survey:

1. Each student will prepare a report based on primary data collected from road traffic survey with the help of properly formulated and structured inventory, specifically having frequency distribution tables.
2. Each student should survey at an important three- point or four-point junction, nearest to the school.
3. The survey should be conducted in two sessions (forenoon and afternoon) of one hour duration.
4. The report should be handwritten in A4 sized white pages in candidate's own words. The word limit should be of 500 words excluding table, figures, maps, photographs and appendices.
5. A copy of the field report duly signed by the concerned teacher will be submitted on the date of examination.
6. The field report should contain the following sections – Introduction, Selection of Study Area, Objectives of the study, Methodology, Results and Discussion/ Major Inferences, Conclusions.

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07/06/24