

# Geography Optional

Foundation Course 2024



**DR. VIJAYA SARATHY NAMBI**

**22 YEARS OF  
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## GEOGRAPHY OPTIONAL FOUNDATION 2024 SCHEDULE

DATE	Day	TIMING	TOPIC
20-07-2023	Thursday	2 pm to 5 pm	Introduction to Geography Optional
21-07-2023	Friday	2 pm to 5 pm	Geomorphology: Origin and evolution of the earth's crust
22-07-2023	Saturday	2 pm to 5 pm	Fundamentals of geomagnetism
24-07-2023	Monday	2 pm to 5 pm	Physical conditions of the earth's interior, Geosynclines
25-07-2023	Tuesday	2 pm to 5 pm	Continental drift; Isostasy; Plate tectonics
26-07-2023	Wednesday	2 pm to 5 pm	Factors controlling landform development, Earth movements
27-07-2023	Thursday	2 pm to 5 pm	Endogenetic and exogenetic forces
28-07-2023	Friday	2 pm to 5 pm	Endogenetic and exogenetic forces
29-07-2023	Saturday	2 pm to 5 pm	Concepts of geomorphic cycles and Landscape development
31-07-2023	Monday	2 pm to 5 pm	Channel morphology; Erosion surfaces; Slope development
01-08-2023	Tuesday	2 pm to 5 pm	Applied Geomorphology and Concepts of Geomorphology.
02-08-2023	Wednesday	2 pm to 5 pm	Climatology: Temperature, pressure belts of the world; Heat budget
03-08-2023	Thursday	2 pm to 5 pm	Atmospheric circulation; stability and instability. Planetary and local winds
04-08-2023	Friday	2 pm to 5 pm	Monsoons and jet streams; Air masses and fronts
05-08-2023	Saturday	2 pm to 5 pm	Temperate and tropical cyclones; Types and distribution of precipitation
07-08-2023	Monday	2 pm to 5 pm	Weather and Climate; Koppen's Thornthwaite's and Trewartha's classification of world climate
08-08-2023	Tuesday	2 pm to 5 pm	Hydrological cycle; Global climatic change, and role and response of man in climatic changes
09-08-2023	Wednesday	2 pm to 5 pm	Applied climatology and Urban climate.
10-08-2023	Thursday	2 pm to 5 pm	Oceanography: Bottom topography of the Atlantic, Indian, and Pacific Oceans
11-08-2023	Friday	2 pm to 5 pm	Temperature and salinity of the oceans
12-08-2023	Saturday	2 pm to 5 pm	Heat and salt budgets, Ocean deposits
14-08-2023	Monday	2 pm to 5 pm	Waves, currents, and tides
<b>15-08-2023</b>	<b>Tuesday</b>	<b>HOLIDAY</b>	
16-08-2023	Wednesday	2 pm to 5 pm	Marine resources; biotic, mineral, and energy resources; Coral reefs coral bleaching
17-08-2023	Thursday	2 pm to 5 pm	Sea-level changes; Law of the sea and marine pollution
18-08-2023	Friday	2 pm to 5 pm	Biogeography: Genesis of soils; Classification and distribution of soils
19-08-2023	Saturday	2 pm to 5 pm	Soil profile; Soil erosion, Degradation, and conservation
21-08-2023	Monday	2 pm to 5 pm	Factors influencing world distribution of plants and animals; Problems of deforestation and conservation measures
22-08-2023	Tuesday	2 pm to 5 pm	Social forestry, agro-forestry; Wildlife; Major gene pool centers
23-08-2023	Wednesday	2 pm to 5 pm	Environmental Geography: Principle of ecology
24-08-2023	Thursday	2 pm to 5 pm	Human ecological adaptations
25-08-2023	Friday	2 pm to 5 pm	Influence of man on ecology and environment

26-08-2023	Saturday	2 pm to 5 pm	Global and regional ecological changes and imbalances
28-08-2023	Monday	2 pm to 5 pm	Ecosystem their management and conservation
29-08-2023	Tuesday	2 pm to 5 pm	Environmental degradation, management, and conservation
30-08-2023	Wednesday	2 pm to 5 pm	Biodiversity and sustainable development
<b>31-08-2023</b>	<b>Thursday</b>	<b>HOLIDAY</b>	
01-09-2023	Friday	2 pm to 5 pm	Environmental policy; hazards and remedial measures; Environmental education and legislation
02-09-2023	Saturday	2 pm to 5 pm	Perspectives in Human Geography: Areal differentiation; regional synthesis; Dichotomy and dualism; Environmentalism
04-09-2023	Monday	2 pm to 5 pm	Quantitative revolution and Locational analysis; Radical, behavioral, human, and welfare approaches
05-09-2023	Tuesday	2 pm to 5 pm	Languages, religions, and secularisation; Cultural regions of the world; Human development index
06-09-2023	Wednesday	2 pm to 5 pm	Economic Geography: World economic development: measurement and problems
07-09-2023	Thursday	2 pm to 5 pm	World resources and their distribution; Energy crisis; the limits to growth
08-09-2023	Friday	2 pm to 5 pm	World agriculture: a typology of agricultural regions
09-09-2023	Saturday	2 pm to 5 pm	Agricultural inputs and productivity; Food and nutrition problems; Food security; famine: causes, effects, and remedies
11-09-2023	Monday	2 pm to 5 pm	World industries: location patterns and problems; Patterns of world trade
12-09-2023	Tuesday	2 pm to 5 pm	Population and Settlement Geography: Growth and distribution of world population; Demographic attributes
13-09-2023	Wednesday	2 pm to 5 pm	Causes and consequences of migration; Concepts of the over-under-and optimum population; Population theories
14-09-2023	Thursday	2 pm to 5 pm	world population problems and policies, Social well-being and quality of life; Population as social capital
15-09-2023	Friday	2 pm to 5 pm	Types and patterns of rural settlements; Environmental issues in rural settlements
16-09-2023	Saturday	2 pm to 5 pm	Hierarchy of urban settlements, Urban morphology
<b>18-09-2023</b>	<b>Holiday</b>	<b>VINAYA KACHATURDI</b>	
19-09-2023	Tuesday	2 pm to 5 pm	Concept of primate city and rank-size rule; Functional classification of towns
20-09-2023	Wednesday	2 pm to 5 pm	Sphere of urban influence; Rural-urban fringe; Satellite towns
21-09-2023	Thursday	2 pm to 5 pm	Problems and remedies of urbanization; Sustainable development of cities
22-09-2023	Friday	2 pm to 5 pm	Regional Planning: Concept of a region; Types of regions, Growth centers and growth poles
23-09-2023	Saturday	2 pm to 5 pm	Regional imbalances; environmental issues in regional planning; Planning for sustainable development
25-09-2023	Monday	2 pm to 5 pm	Models, Theories: System analysis in Human geography; Malthusian, Marxian and demographic transition models
26-09-2023	Tuesday	2 pm to 5 pm	Central Place theories of Christaller, Losch & Boudeville; Von Thunen's model of agricultural location
27-09-2023	Wednesday	2 pm to 5 pm	Weber's model of industrial location; Heartland and Rimland theories; Laws of international boundaries and

			frontiers.
<b>Paper-II Geography of INDIA</b>			
28-09-2023	Thursday	2 pm to 5 pm	Setting: Space relationship of India with neighboring countries; Structure and relief
29-09-2023	Friday	2 pm to 5 pm	Drainage system and watersheds; Physiographic regions
01-10-2023	Saturday	2 pm to 5 pm	Mechanism of Indian monsoons and rainfall patterns
02-10-2023	Holiday	2 pm to 5 pm	Tropical cyclones and western disturbances; Floods and droughts
03-10-2023	Tuesday	2 pm to 5 pm	Climatic regions; Natural vegetation
04-10-2023	Wednesday	2 pm to 5 pm	Soil types and their distributions
05-10-2023	Thursday	2 pm to 5 pm	Resources: Land, surface and ground water
06-10-2023	Friday	2 pm to 5 pm	energy
07-10-2023	Saturday	2 pm to 5 pm	minerals
09-10-2023	Monday	2 pm to 5 pm	biotic and marine resources
10-10-2023	Tuesday	2 pm to 5 pm	Forest and wildlife resources and their conservation; Energy crisis
11-10-2023	Wednesday	2 pm to 5 pm	Agriculture: Infrastructure: irrigation, seeds, fertilizers, power
12-10-2023	Thursday	2 pm to 5 pm	Institutional factors; land holdings, land tenure and land reforms <sup>1</sup>
13-10-2023	Friday	2 pm to 5 pm	Cropping pattern, agricultural productivity, agricultural intensity, crop combination, land capability
14-10-2023	Saturday	2 pm to 5 pm	Agro and social-forestry; Green revolution and its socio-economic and ecological implications; Significance of dry farming
16-10-2023	Monday	2 pm to 5 pm	Livestock resources and white revolution; Aquaculture; Sericulture
17-10-2023	Tuesday	2 pm to 5 pm	Agriculture and poultry; Agricultural regionalisation; Agro-climatic zones; Agroecological regions
18-10-2023	Wednesday	2 pm to 5 pm	Industry: Evolution of industries; Locational factors of cotton, jute, textile
19-10-2023	Thursday	2 pm to 5 pm	iron and steel, aluminum
20-10-2023	Friday	2 pm to 5 pm	fertiliser, paper, chemical and pharmaceutical, automobile
21-10-2023	Saturday	2 pm to 5 pm	cottage, and ago-based industries; Industrial houses and complexes including public sector undertakings
<b>21-10-2023 To 25-10-2023</b>			<b>Dussara Break</b>
26-10-2023	Thursday	2 pm to 5 pm	Industrial regionalisation; New industrial policy; Special Economic Zones; Tourism including ecotourism
27-10-2023	Friday	2 pm to 5 pm	Transport, Communication, and Trade: Road, railway, waterway
28-10-2023	Saturday	2 pm to 5 pm	airway, and pipeline networks and their complementary roles in regional development
30-10-2023	Monday	2 pm to 5 pm	Growing importance of ports on national and foreign trade; Trade balance; Trade Policy
31-10-2023	Tuesday	2 pm to 5 pm	Export processing zones; Developments in communication & IT and their impacts on economy and society
01-11-2023	Wednesday	2 pm to 5 pm	Indian space programme
02-11-2023	Thursday	2 pm to 5 pm	Cultural Setting: Historical Perspective of Indian Society; Racial linguistic and ethnic diversities; religious minorities
03-11-2023	Friday	2 pm to 5 pm	Major tribes, tribal areas, and their problems
04-11-2023	Saturday	2 pm to 5 pm	Cultural regions; Growth, distribution, and density of

			population
06-11-2023	Monday	2 pm to 5 pm	Demographic attributes: sex-ratio, age structure, literacy rate, work-force, dependency ratio, longevity
07-11-2023	Tuesday	2 pm to 5 pm	migration and associated problems; Population problems and policies; Health indicators
08-11-2023	Wednesday	2 pm to 5 pm	Settlements: Types, patterns, and morphology of rural settlements
09-11-2023	Thursday	2 pm to 5 pm	Urban developments; Morphology of Indian cities; Functional classification of Indian cities
10-11-2023	Friday	2 pm to 5 pm	Conurbations and metropolitan regions; Urban sprawl; Slums and associated problems
11-11-2023	Saturday	2 pm to 5 pm	Town planning; Problems of urbanisation and remedies
13-11-2023	Monday	2 pm to 5 pm	Regional Development and Planning: Experience of regional planning in India; Five Year Plans
14-11-2023	Tuesday	2 pm to 5 pm	Integrated rural development programmes; Panchayati Raj and decentralised planning
15-11-2023	Wednesday	2 pm to 5 pm	Command area development; Watershed management
16-11-2023	Thursday	2 pm to 5 pm	Planning for backward area, desert, drought-prone, hill tribal area development
17-11-2023	Friday	2 pm to 5 pm	Multi-level planning; Regional planning and development of island territories.
01-12-2023	Friday	2 pm to 5 pm	Political Aspects: Geographical basis of Indian federalism; State reorganization
02-12-2023	Saturday	2 pm to 5 pm	Emergence of new states; Regional consciousness and inter-state issues
04-12-2023	Monday	2 pm to 5 pm	International boundary of India and related issues; Cross-border terrorism
05-12-2023	Tuesday	2 pm to 5 pm	India's role in world affairs; Geopolitics of South Asia and Indian Ocean realm
06-12-2023	Wednesday	2 pm to 5 pm	Contemporary Issues: Ecological issues: Environmental hazards: landslides, earthquakes, Tsunamis, floods and droughts
07-12-2023	Thursday	2 pm to 5 pm	epidemics; Issues related to environmental pollution; Changes in patterns of land use
08-12-2023	Friday	2 pm to 5 pm	Principles of environmental impact assessment and environmental management; Population explosion and food security
09-12-2023	Saturday	2 pm to 5 pm	Environmental degradation; Deforestation, desertification, and soil erosion
11-12-2023	Monday	2 pm to 5 pm	Problems of agrarian and industrial unrest; Regional disparities in economic development
12-12-2023	Tuesday	2 pm to 5 pm	Concept of sustainable growth and development; Environmental awareness;
13-12-2023	Wednesday	2 pm to 5 pm	Linkage of rivers; Globalisation and Indian economy