



**RAFFLES
UNIVERSITY**

**SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
RAFFLES UNIVERSITY
B.A (General)
Geography (GEO-101)
Semester- 1st
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	PHYSICAL GEOGRAPHY
Course No.:	GEO
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term-20% End-term-60%
Course Objective:	The objectives of this course are to introduce basic concepts of Physical Geography. Further, this course synthesizes meaning, nature identification, evaluation and interpretation of landforms and geomorphic processes, climatology, hydrology and Soil.
Course Outcomes:	After end of the lesson students able to hone their scientific understanding, illustration, skill and developed themselves as self- confident learner in the field of landforms study.

SYLLABUS

Unit-I: GEOMORPHOLOGY

The nature and scope of Geomorphology;
Constitution of earth's interior;
Geological Time Scale; Continental Drift, Plate Tectonics.
Relevance of Geomorphological Studies in Environment Management

Unit-II: CLIMATOLOGY

Nature and scope of climatology,
Composition and structure of the atmosphere;
Atmospheric Evaporation; Humidity; Condensation, Precipitation, types of rainfall,
Hydrological Cycle.
Koppen's Classification of Climates, Global Warming; Air Pollution, Climatic Change
and its impact on the earth.

Unit-III: HYDROLOGY

Lithosphere: Internal Structure of Earth based on Seismic Evidence, Plate Tectonics
and its Associated Features.
Definition and Scope of Hydrology; Hydrological cycle; Surface water: sources and
factors affecting quality and quantity; Precipitation: forms and estimation; Runoff:
sources, and factors; Evaporation: factors and measurement; Transpiration: significance
and factors; Evapo-transpiration.

Unit-IV: SOIL GEOGRAPHY

Nature and Scope of Soil Geography.
Significance of Soil Geography.
Factors of Soil Formation: Parent Material, Organic, Climatic, Topographic.
Physical Properties of Soils: Morphology, Texture, Structure, Water, Air, Temperature.

Reading List:

1. Bloom A. L., 2003: Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice- Hall of India, New Delhi.
2. Bridges E. M., 1990: World Geomorphology, Cambridge University Press, Cambridge.
3. Christopherson, Robert W., (2011), Geosystems: An Introduction to Physical Geography, 8 Ed., Macmillan Publishing Company.
4. Backman, H.O and Brady, N.C. (1960.) The Nature and Properties of Soils, Mc Millan New York.
5. Mc. Bride, M.B. (1999) Environmental Chemistry of Soils, Oxford University Press, New York.
6. Barry, R.G. and Chorley R.J. 2009(9th edition). Atmosphere Weather and climate, Routledge
7. Critchfield, J.H. 1983(4th edition). General Climatology. Phi Learning Pub.
8. Das, P.K. 2011(3rd edition). The Monsoons. National Book Trust, New Delhi
9. Fein, J.S. and Stephens, P.N. 1987. Monsoon. John Wiley and Sons, New York
10. India Met. Deptt: Climatological Tables of observation in India
11. Lal, D.S. 2012. Climatology. Sharda Pustak Bhawan, Allahabad.
12. Lydolph.P.E. 1985. The Climate of the Earth. Roman & Allanheld Pub.
13. Menon,P.A. 1989. Our Weather, National Book Trust, New Delhi.
14. Thompson, R.D. and Perry, A. 1997. Applied Climatology: Principles and Practice. Routledge.



**RAFFLES
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**SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
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B.A (General)
Geography (GEO-201)
Semester- 2nd
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	HUMAN GEOGRAPHY
Course No.:	GEO-201
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term-20% End-term-60%
Course Objective:	To introduce and make them understand about different human dimensions related to culture, society, settlement and resources with their types and distribution.
Course Outcomes:	The expected learning outcome would be; the student will able to understand, identify and describe social, cultural and economic dynamics of society.

SYLLABUS

Unit-I: INTRODUCTION

Meaning and Scope of Human Geography; Major Themes; Environmental Determinism, Possibilism, Neo-determinism, their contemporary relevance.

Unit-II: SPACE AND SOCIETY

Space and Society: Major Cultural Realms of the World. Distribution and Characteristics of Race, Religion and Language.

Unit-III: POPULATION AND DEMOGRAPHY

Population-Resource Relationship; Optimum, Over Population, Under Population, their problem and prospects. Ackerman's Population –Resource Region, Population Growth and Distribution; Population Composition; Demographic Transition Theory.

Unit-IV: SETTLEMENT: URBAN AND RURAL

Settlements: Types of Rural Settlements; Patterns of Rural Settlements; Classification of Urban Settlements based on Function and Size; Trends and Patterns of World Urbanization.

Reading List

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Black well Publication.
5. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur
6. Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata.

7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.



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RAFFLES UNIVERSITY
B.A (General)
Geography (GEO-301)
Semester- 3rd
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	GEOGRAPHY OF INDIA
Course No.:	GEO-301
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term-20% End-term-60%
Course Objective:	To provide basic knowledge about physiography, demography and cultural attributes of Indian landscapes.
Course Outcomes:	The expected learning outcome would be; the conceptual clarity about physical, demographic, social, cultural and economic spheres of Indian regions.

SYLLABUS

Unit-I: PHYSIOGRAPHY AND DRAINAGE

Physiographic Divisions-The Great Himalayas, Indo- Gangetic Plain and the Peninsular Plateau. Nature and characteristics of Himalayan Drainage and Peninsular Drainage; Differences between Himalayan Drainage and Peninsular Drainage.

Unit-II: CLIMATE, SOILS AND NATURAL VEGETATION

Characteristics of climate; origin of Monsoon- Halley's and Flohn's Concepts, Classification of climate given by Koppen: Soils-factors of soil formation; types and Characteristic of soils: Natural Vegetation-factors for the growth and distribution of Natural Vegetation; types and characteristics of Natural Vegetation.

Unit-III: POPULATION AND SOCIAL GEOGRAPHY

Population distribution, growth, and structure, distribution of race, caste, religion, language, tribes and their correlates. Resource Base – Livestock (cattle and fisheries), Power (coal, and hydroelectricity)

Unit-IV: ECONOMIC GEOGRAPHY

Distribution and utilization of iron ore, coal, petroleum; Agricultural production and distribution of rice and wheat, problems and prospects of cotton textile industry; Trends and Development of Iron and Steel Industry.

Reading List:

1. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
2. Mamoria C. B., 1980: Economic and Commercial Geography of India, Shiva Lal Agarwala.
3. Miller F. P., Vandome A. F. and McBrewster J., 2009: Geography of India: Indo-Gangetic Plain, Thar Desert, Major Rivers of India, Climate of India, Geology of India, Alphascript Publishing.
4. Nag P. and Sengupta S., 1992: Geography of India, Concept Publishing.
5. Pichamuthu C. S., 1967: Physical Geography of India, National Book Trust.
6. Sharma T. C. and Coutinho O., 1997: Economic and Commercial Geography of India, Vikas Publishing.
7. Singh Gopal, 1976: A Geography of India, Atma Ram.
8. Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography, Methuen.
9. Rana, Tejbir Singh, 2015, Diversity of India, R.K. Books, Delhi.



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RAFFLES UNIVERSITY
B.A (General)
Geography (GEO-401)
Semester- 4th
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	ECOLOGY AND ENVIRONMENT
Course No.:	GEO
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term- 20% End-term- 60%
Course Objective:	To make them aware about different types of environments, ecological setting and their issues and challenges.
Course Outcomes:	The expected learning outcome of this course would be; make them understand and take role in environmental conservation and management.

SYLLABUS

Unit-I: PRINCIPLES OF ECOLOGY AND ENVIRONMENT

Meaning and concept of Ecology and Environment.
Biosphere, Ecosystems, habitat and man environmental relationship.
Human Ecology and Adaptations.

Unit-II: BIODIVERSITY

Biomes of the World (Equatorial and Tundra),
Biodiversity and its Significance with reference to India, Hot Spot in India.
Case Study of Western Ghat, Conservation Measures.

Unit-III: ENVIRONMENT

Environmental Degradation; Pollution (water and air), causes and consequences of
Environmental Imbalances, Environment and development.

Unit-IV: ENVIRONMENTAL MOVEMENT

Environmental Movement; Legislation and Policies, Concept of Sustainable
Development.

READING LISTS:

1. Charles, J. krebs; Ecology, 2016.
2. Eugene P., Odum: Ecology: A Bridge between Science and Society, 2018.
3. S.V.S. Rana: Essentials of Ecology and Environmental Science, Prentice Hall of India, New Delhi, 2003.
4. Sexena, S.M.: Environmental Geography, Rawat Pub., 2004.
Savinder Singh, Environmental Geography, Prawartika Pub. 2006.
5. Puri, G.S., Indian forest Ecology, New Delhi.
6. Odum, Eugene P., Fundamentals of Ecology, Philadelphia, 2004.



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RAFFLES UNIVERSITY
B.A (General)
Geography (GEO-501)
Semester- 5th
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	DISASTER MANAGEMNT
Course No.:	GEO
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term- 20% End-term- 60%
Course Objective:	This course aims to develop the knowledge bout meaning, types, causes, responses, migration, management and prearedness of natural and man-made disaster at global level as well as at India.
Course Outcomes:	After completing this course, students will be able to visualize and recognize the various vulnerable zone often affected by disaster in India. They will be also able to examine various mechanism to address these problems.

SYLLABUS

Unit-I: DISASTER

Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification.

Unit-II: DISASTER IN INDIA

Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping.

Unit-III: DISASTER IN INDIA

Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping, Manmade disasters: Causes, Impact, Distribution and Mapping.

Unit-IV: RESPONSES

Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters.

READING LIST:

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.



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B.A (General)
Geography (GEO-601)
Semester- 6th
Session 2021-24**

Name of Instructor:	Dr Mahfooz Alam
Course Title:	SUSTAINABLE DEVELOPMENT
Course No.:	GEO
Credit:	06
Course Category:	GEO
Type of Course:	Theory
Course Assessment:	Self Assesment-20% Mid-Term- 20% End-term- 60%
Course Objective:	To make them aware about issues, concerns and importance of sustainable development and also to realize the program, policies and strategies of developmental goals.
Course Outcomes:	After end of this lesson, it is expected that students will share their theoretical experiences in social life to make this world more sustainable.

SYLLABUS

UNIT-I: SUSTAINABILITY

Sustainable Development: Definition, Components, Limitations and Historical Background

UNIT-II: GOAL'S STRATEGIES

The Millennium Development Goals: National Strategies and International Experiences.
Sustainable Regional Development: Need and examples from different Ecosystems.

UNIT-III: SUSTAINABLE REGIONAL DEVELOPMENT

Inclusive Development: Education, Health; Climate Change: The role of higher education in sustainable development; The human right to health; Poverty and disease; The Challenges of Universal Health Coverage; Policies and Global Cooperation for Climate Change.

UNIT-IV: DEVELOPMENTAL POLICIES

Sustainable Development Policies and Programmes: The proposal for SDGs at Rio+20; Illustrative SDGs; Goal-Based Development; Financing for Sustainable Development; Principles of Good Governance; National Environmental Policy, CDM.

READING LIST:

1. Agyeman, Julian, Robert D. Bullard and Bob Evans (Eds.) (2003) Just Sustainabilities: Development in an Unequal World. London: Earthscan. (Introduction and conclusion.).
2. Ayers, Jessica and David Dodman (2010) "Climate change adaptation and development I: the state of the debate". Progress in Development Studies 10 (2): 161-168.
3. Baker, Susan (2006) Sustainable Development. Milton Park, Abingdon, Oxon; New York, N.Y.: Routledge. (Chapter 2, "The concept of sustainable development")
4. Brosius, Peter (1997) "Endangered forest, endangered people: Environmentalist representations of indigenous knowledge", Human Ecology 25: 47-69.
5. Lohman, Larry (2003) "Re-imagining the population debate". Corner House Briefing 28.
6. Martínez-Alier, Joan et al (2010) "Sustainable de-growth: Mapping the context, criticisms and future prospects of an emergent paradigm" Ecological Economics 69: 1741-1747.
7. Merchant, Carolyn (Ed.) (1994) Ecology. Atlantic Highlands, N.J: Humanities Press. (Introduction, pp 1-25.).
8. Osorio, Leonardo et al (2005) "Debates on sustainable development: towards a holistic view of reality". Environment, Development and Sustainability 7: 501-518.

10. Robbins, Paul (2004) Political Ecology: A Critical Introduction. Blackwell Publishing.
11. Singh, R.B. (Eds.) (2001) Urban Sustainability in the Context of Global Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.