



Your complimentary
use period has ended.
Thank you for using
PDF Complete.

[Click Here to upgrade to
Unlimited Pages and Expanded Features](#)

Syllabi

Four Year Undergraduate Programme (FYUGP)

Effective from Academic Year 2023-24

GAUHATI UNIVERSITY

Guwahati-781014

SCIENCE

01. Geography

Title of the paper

1. Introduction to Physical Geography
2. Introduction to Human Geography
3. Geography as a Spatial Science
4. Geomorphology
5. Population and Settlement Geography
6. Geography of India
7. Cartographic Techniques
8. Disaster Management
9. Climatology, Biogeography and Oceanography
10. Quantitative methods in Geography
11. Social, Cultural and Political Geography
12. Economic and Resource Geography
13. Geography of tourism
14. Geography of Environmental and Development
15. Introduction to Remote Sensing and GIS
16. Surveying Techniques
17. Urban Geography
18. Geography of North East India

Geography Gauhati University

Syllabus as per NEP 2020

Approved as per UGCCS in Geography held on 22-03-2023 Four-year
Undergraduate Programme

Subject: **Geography**

Semester: I

Course Name: **Introduction to Physical Geography** (Compulsory)

Course Level: Foundation & Introductory

100 Marks (Theory =80 Marks, Internal Assessment = 20 Marks)

Theory (4 Credits, 80 marks, 60 classes of one-hour duration)

Unit I: **Evolution and growth of Physical geography**

Growth of nature-centric geography; evolution and trend of Physical Geography as a study of earth process systems; meaning, scope and nature of Physical Geography; branches of Physical Geography; Physical geography and its interdisciplinary nature.

Unit II: **Geomorphology**

Meaning, scope and significance of geomorphological studies. fundamental concepts in geomorphology: catastrophism, uniformitarianism, and Davisian concept of landform development.

Unit III: **Climatology**

Meaning, scope and significance of climatological studies. fundamental concepts in Climatology: insolation and heat budget, temperature, pressure and precipitation relationship; pressure and wind systems.

Unit IV: **Oceanography**

Meaning, scope and significance of oceanographic studies; fundamental concepts in oceanography: origin of ocean basins, the origin of ocean currents, temperature and salinity relationship.

Unit V: **Biogeography**

Meaning, Scope and Significance of biogeographic studies; fundamental concepts in Biogeography: biosphere, ecology, Ecosystem, biodiversity

Reading List

1. Strahler, A., and Strahler, A. (2007). Physical geography. John Wiley & Sons.
2. Bloom, A. L., and Bloom, A. L. (1998). Geomorphology: a systematic analysis of late Cenozoic landforms (No. 551.41 B5.). Upper Saddle River: Prentice Hall.
3. Waugh, D. (2000). Geography: An integrated approach. Nelson Thornes.

Introduction to Geomorphology. Orient Longman, New

5. Cole, Peter (2007) *Learning Changing Surface: An Introduction to Geomorphology*. Clarendon Press
6. Thornbury, W. (1968). *Principles of Geomorphology*.- John Wiley and Sons, 394 p. New York.
7. Siddhartha, K. (2018): *Oceanography, A brief Introduction*, Kitab Mahal
8. Howard, J. Critchfield: *General Climatology*, 2008, Pearson
9. Lal, D.S.(2022) *Climatology*, Sarda Pustak Bhaban
10. C.Barry Cox, Peter D. Moore, (2000), *Biogeography*, John Wiley and Sons Ltd

Course Objective:

- Explain the basic concepts and principles of physical geography.
- Identify the major processes that shape the Earth's physical environment.
- Analyze how physical geography processes impact human activities and development
- Apply critical thinking skills to analyze and solve problems related to physical geography

Learning outcome:

- To introduce students to the principles of physical geography and their applications. To enable students to develop a deep understanding of the processes that drive physical geography.
- To enable students to apply the principles of physical geography to practical real-world situations.

Theory Credit : Four (4)

Practical Credit : Zero (0)

No. of Required Classes : 60

No. of Contact Classes : 40

No. of Non-Contact Classes : 20

Particulars of Course Designer (Department of Geography, Gauhati University,
geography@gauhati.ac.in)

Year: 1st year Undergraduate Programme
Subject: Geography

Semester: II

Course Name: **Introduction to Human Geography (Compulsory)**

Course Level: Foundation & Introductory

100 Marks (Theory =80 Marks, Internal Assessment = 20 Marks)

Theory (4 Credits, 80 marks, 60 classes of one-hour duration)

Unit I:

Defining the field of human geography and its development:

Meaning and scope; Place of man in the study of geography; Nature of human geography and its relation with other social sciences; Changing definitions and trend of development of human geography.

Unit II:

Concept of man-environment relationship in human geography: Determinism, Possibilism, Neo- determinism and Cultural Determinism.

Unit III:

Schools of human geography: Human Ecology, Landscape and Locational Analysis.

Unit IV:

Man and environment relationship: Changing man-environment relationship through ages; Impact of environment on man in different geographical conditions; Impact of man and its activities on environment in different parts of the world; Urbanization and environment in different global contexts.

Unit V:

Man and culture: Concept of ethnicity and race; Global patterns of the racial composition of the population and associated characteristics of major racial groups; Rural and urban environments and associated socio-economic practices.

Reading List

1. Johnston, R. et. al. (2008). The Dictionary of Human Geography, Blackwell Publication.
2. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, NewYork.
3. Hussain, Majid (2012). Human Geography. Rawat Publications, Jaipur.
4. Gregory, D. 1978. Ideology, Science and Human Geography, London, Hutchinson.
5. James, M.R. and Bacon, R.S. 1990. The Cultural Landscape: An Introduction to Human Geography, Prentice Hall.
6. Leong, G.C. and Morgan, G.C. 1992. Human and Economic Geography, Oxford University Press.

J. 1999. Human Geography: Landscapes of Human
Geography, Chatto and Windus, London.

9. Broek, J.O.M. and Webb, J.W., 1969. A Geography of Mankind, Taylor and Francis.

Course Objective:

- Students will be able to identify and describe the fundamental concepts, theories, and approaches of human geography.
- Students will be able to apply the skills of analysis and interpretation to a range of geographical phenomena.
- Students will be able to recognize the significance of human geography in addressing contemporary world issues and challenges.

Learning outcome:

- To understand the basic concepts, theories, and approaches of human geography.
- To develop the skills required to analyze and interpret geographical phenomena
- To appreciate the importance of human geography in understanding contemporary world issues and challenges.

Theory Credit : Four (4)

Practical Credit : Zero (0)

No. of Required Classes : 60

No. of Contact Classes : 40

No. of Non-Contact Classes : 20

Particulars of Course Designer (Department of Geography, Gauhati University,
geography@gauhati.ac.in)

Undergraduate Programme
Subject: Geography

Semester: III

Course Name: Geography as a Spatial Science (Compulsory)

Course Level: Intermediate

100 Marks (Theory =80 Marks, Internal Assessment = 20 Marks)

Theory (4 Credits, 80 marks, 60 classes of one-hour duration)

Unit I:

Defining the field of Geography:

Study of the earth as the home of man; Place of geography in relation to natural and social sciences; the changing definitions of geography and its multi- disciplinary nature.

Unit II:

Geography as a spatial science and spatial concepts in geography:

Concept of space, place, territory, and region; Geographic space (Absolute Space and Relative Space); Spatial Processes and Patterns (only basic concept) . Spatial distribution, Spatial concentration, Spatial organization, Spatial relationship.

Unit III:

Basic Approaches in Geography:

Systematic and Regional; Ideographic and Nomothetic; Pure and Applied.

Unit IV:

Spatial Analysis in Geography:

Concept of location; Concept of point, line, and area patterns.

Unit V:

Scientific Approaches in Geography:

Inductive and Deductive methods; Harvey's modes of explanations in Geography (only basic concept): Cognitive, Morphometric, Cause and effect, Temporal, Functional and System analysis.

Reading List

1. Abler, R., Adams, J. and Gould, P.P., 1971: Spatial Organization: The Geographers' View of the World, Prentice-Hall, Englewood Cliff.
2. Ackerman, E.A., et al, 1965: The Science of Geography, Washington D.C., National Academy of Science/ National Research Council Pub. No. 1277.

ntals of Geographical Thought, Orient

4. Chener, Richard, et and Haggett, Peter (eds), 1967: Models in Geography, Methuen, London.
5. Chorley, Richard, J., 1973: Directions in Geography, Methuen, London.
6. Dikshit, R.D., 1994: The Art and Science of Geography, Prentice Hall of India, New Delhi.
7. Haggett, P., 2001: Geography: A Global Synthesis, Pearson Education, Essex, UK.
8. Hartshorne, R., 1939: The Nature of Geography, Association of American Geographers, Lancaster, Penn.
9. Hartshorne, R., 1959: Perspective on the Nature of Geography, Rand McNally, Chicago.
10. Harvey, D., 1969: Explanation in Geography, St. Martin's Press, New York, 1969.
11. Johnston, R.J. et al.(eds), 1986: The Dictionary of Human Geography, Oxford, Basil Blackwell.

Course Objective:

- To introduce students to the fundamental concepts of geography as a spatial science.
- To provide students with a strong foundation in spatial data analysis and visualisation.
- To enable students to understand and critically analyse the spatial dimensions of a range of geographic processes.
- To equip students with the skills to develop and apply spatial models and technologies to solve geographic problems.

Learning outcome:

- Understanding of the basic concepts of geography as a spatial science.
- Understanding of the methods of spatial analysis and their application in analysing geographic processes.
- Ability to critically analyse the spatial dimensions of a range of geographic processes.

Theory Credit : Four (4)

Practical Credit : Zero (0)

No. of Required Classes : 60

No. of Contact Classes : 40

No. of Non-Contact Classes : 20

Particulars of Course Designer (Department of Geography, Gauhati University,
geography@gauhati.ac.in
