

NEP BA/Bsc. 3rd Sem.
(Major & Minor)

Four-year 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:

PN 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:

MS 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:

HD Basic Approaches in Geography: Systematic and Regional; Ideographic and Nomothetic; Pure and Applied.

Unit IV:

JKB Spatial Analysis in Geography: Concept of location; Concept of point, line, and area patterns.

Unit V:

PKS 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.
3. Adhikari, Sudeepta, 2015: Fundamentals of Geographical Thought, Orient

- Blackswan Pvt.Ltd., New Delhi.
4. Chorley, Richard, J. 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)

3rd Sem SEC (Environmental Ethics)

Course Objectives:

- To provide an understanding of the environmental ethics
- To create environmental awareness among the students
- To rethink and rectify the lapses in our relationship with nature
- To provide insights among students about environment and politics

Learning outcome:

Students will be able to understand the environmental problems and will learn environmental ethics for the protection of environment and to use natural resources in a sustainable manner.

Unit 1: Understanding Environmental Ethics

- MS a. Concept of environmental ethics
- PKS b. Importance of environmental ethics

Unit 2: Environmental issues

- AD a. Pollution- various types, sources and control measures

Unit 3: Environment and Politics

- a. Ecologism PN
- b. Ecofeminism PN
- c. Sustainable Development JKB

Project/ Assignment

1. Suggested Readings:

- Attfield. Robin, *Environmental Ethics A Very Short Introduction*, Oxford, 2019
- Baker. Susan, *Sustainable Development*, Routledge, New York, 2006
- Basak. Anindita, *Environmental Studies*, Pearson, 2009