

## **Syllabi**

**Four Year Undergraduate Programme (FYUGP)**

**Gauhati University**

**Effective from Academic Year 2023-24**



**GAUHATI UNIVERSITY**  
Guwahati-781014

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**ARTS**

Syllabus for  
Four-year Undergraduate Programme  
**Geography**  
Syllabus as per NEP 2020

Course effective from academic year 2023-24



**GAUHATI UNIVERSITY**  
Guwahati-781014

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**Department of 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 windsystems.

**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.
4. Kale, V.S. and Gupta, A. (2001) Introduction to Geomorphology. Orient Longman, NewDelhi.
5. Selby, M.J. (2005) Earth's Changing Surface: An Introduction to Geomorphology. ClarendonPress
6. Thornbury, W. (1968). Principles of Geomorphology.- John Wiley and Sons, 394 p. NewYork.
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 physicalgeography.
- 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)*