



DEPARTMENT OF GEOGRAPHY

POST GRADUATE DEPARTMENT
MORIGAON COLLEGE (Autonomous)



ESTD. 1994

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DATE: 26-11-2025

RESOLUTION

BOARD OF STUDIES

DEPARTMENT OF GEOGRAPHY, MORIGAON COLLEGE (AUTONOMOUS)

The board of studies of department of Geography Morigaon College (Auto) organized a meeting on dated 26-11-2025 in the Department of Geography to discuss about the new framework of syllabus of FYUGP U.G, P.G. and PGDDM. In the FYUGP U.G course one credit of practical work is suggested to include in the Four Credit of each paper. In the theory parts there are few additions of small topics in the original syllabus of Parent University (GU). To make these changes, it was follows the syllabus of Banaras Hindu University, Assam University, Nowgong University and Kerala University, Dibrugarh University and Cotton University.

There should not any changes made by the committee regarding the modification of P.G syllabus as there will be introduction of NEP 2020 guidelines from the year 2023.

In the PGDDM courses the whole course was restructured in semester system. Initially it was two year Post Graduate Diploma course. Now in this course there are two theory papers of 60 marks and one practical paper in each of the four semesters.

In the end of the meeting the committee accepted the newly organized syllabus and decided to submit it to the Academic committee to approved and implement.

Dr. Pranab Jyoti Sarma
HOD, Dept. of Geography
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**MORIGAON COLLEGE (AUTONOMOUS)
DEPARTMENT OF GEOGRAPHY**

**DRAFT PROPOSAL ON SYLLABUS BIFURCATION
2025
FOR NEWLY ADMITTED FYUGP**

**PREPARED BY
DEPARTMENT OF GEOGRAPHY
MORIGAON COLLEGE (AUTONOMOUS)**

Four Year Under-Graduate Programme

Subject:

Geography

Semester: I

Course Name: **Introduction to Physical Geography**

Course Code: GGY-CORE-(MJ/MN)-MC-0100104

Course Level: Foundation & Introductory

Part I: Theory (3 Credits, 45 classes of one-hour duration)

Part II: Practical (1 Credit, 15 classes of two-hour duration)

100 Marks (Theory=45 Marks, Practical =25 Marks, Internal assessment=30 Marks)

Course Objective:

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

Course outcome:

1. Understand the evolution, concept, scope, and branches of Physical Geography and its interdisciplinary nature.
2. Appreciate the scope and significance of Geomorphology, and comprehend fundamental concepts such as catastrophism and uniformitarianism.
3. Grasp the meaning, scope, and critical elements of Climatology such as insolation, heat budget, and the relationship between temperature, pressure, and precipitation.
4. Understand the fundamentals of Oceanography, Including the origins of ocean basins and currents, and the relationship between temperature and salinity.
5. Comprehend the essence, scope, and key concepts of Biogeography such as the biosphere, ecology, ecosystems, and biodiversity.

Part I

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 biogeography studies; fundamental concepts in Biogeography: biosphere, ecology, Ecosystem, biodiversity

Part II

Unit I: Practical works (16 marks) two questions of 8 marks each

1. Topographical map reading and interpretation of relief, drainage, settlement and transport (one grid of 5' × 5' in 1: 50,000 topographical sheet) (1 assignment)
2. Relief representation from the topographical map (v-shaped valley, u-shaped valley, conical hill, cliff, uniform slope) (1 assignment)
3. Rainfall representation in India/ North-East India/ Assam for the last 50/100 years using bar-diagram with trend line (2 assignment)
4. Mapping of major ocean currents of the world (1 assignment)

Unit II: Practical Note-book and Viva-voce (9 marks)

1. Evaluation of practical Note-book (5 Marks)
2. Viva-voce (4 Marks)

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, New Delhi.
5. Selby, M.J. (2005) Earth's Changing Surface: An Introduction to Geomorphology. Clarendon Press
6. Thornbury, W. (1968). Principles of Geomorphology. - John Wiley and Sons, 394p. New York.
7. Siddhartha, K. (2018): Oceanography, A brief Introduction, Kitab Mahal 8. Howard, J. Critchfield: General Climatology, 2008, Pearson
8. Lal, D.S. (2022) Climatology, Sarda Pustak Bhaban
9. C. Barry Cox, Peter D. Moore, (2000), Biogeography, John Wiley and Sons Ltd
10. Singh, R.L. and Singh, P.B. (). Elements of Practical Geography

11. Sarkar, A. (). Practical Geography: A Systematic Approach

Theory Credit: 3

Practical Credit: 1

No. of Required Classes: 60

No. of Contact Classes: 40

No. of Non-Contact Classes: 20

MORIGAON COLLEGE
(AUTONOMOUS)
DEPARTMENT OF GEOGRAPHY SYLLABUS
FYUGP Semester – I
Skill Enhancement Course (SEC)

Course Name: **Essentials of Map Making**

Course Code: SEC-GGY-MC-0100103

Course Level: Foundation and Introductory

Part I: Theory (2 Credits, 30 classes of one-hour duration)

Part II: Practical (1 Credit, 15 classes of two hours duration)

75 Marks (Theory: 30 Marks, Practical: 25 Marks, Internal Assessment: 20 Marks)

Learning Objective:

1. Provides a general understanding of methods and techniques of map-making and their importance in diverse disciplines.
2. Focuses on various themes of techniques; principles of different types of symbols, methods for the preparation of maps or plans in different environments, and representation of various features of the earth's surface using different map-making techniques.

Learning outcomes:

1. Understanding the importance of various techniques of preparation of maps.
2. General understanding of the preparation of different types of plans and maps.
3. An acquaintance of different cartographic techniques for the representation of various facets of the earth's surface.

Part - I (Theory)

Unit 1: Introduction

Definition and importance of map.

Unit 2: Types of map

Based on scale (Small, Medium and Large scale maps); Based on information content (General purpose, thematic and special purpose maps); Characteristics of topographical maps; Interpretation of topographical map and data generation.

Unit 3: Map elements

Map elements with respect to the location of physical and cultural features on the earth's surface, and their principles and techniques of representation (Point, line and polygon).

Unit 4: Thematic mapping

Principles and techniques of representation of physical and human geographic data; Types of thematic mapping: Choropleth, Isopleth, Chorochromatic, Choroschematic.

Part - II (Practical)

Unit I: To attempt 2 questions in total 8 marks each (16 Marks)

1. Preparation of an administrative/physical map of India containing necessary map elements using appropriate typography. (1 Assignment)
2. Preparation of thematic maps for representing human geographic data using choropleth, isopleth, dot, sphere and proportionate circle techniques. (5 Assignments)
3. Interpretation of topographical maps of India for preparation of qualitative thematic maps (Landuse/Land cover map); Construction of Transect Chart showing the relationship between selected physical and cultural elements along a cross-section from the topographical map. (2 Assignments)

Unit II: Practical Note-Book and Viva-voce (9 Marks)

1. Evaluation of Practical Note-Book (5 Marks)
2. Viva-voce (4 Marks)

Suggested Readings

1. Anson R. and Ormelling F.J., 1994: International Cartographic Association: Basic Cartographic Vol., Pergamon Press.
2. Gupta K.K. and Tyagi, V.C., 1992: Working with Map, Survey of India, DST, New Delhi.
3. Misra R.P. and Ramesh, A., 1989: Fundamentals of Cartography, Concept, New Delhi.
4. Monkhouse F.J. and Wilkinson H.R., 1973: Maps and Diagrams, Methuen, London.
5. Rhind D. W. and Taylor D. R. F., (eds.), 1989: Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
6. Robinson A.H., 2009: Elements of Cartography, John Wiley and Sons, New York.
7. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
8. Sarkar, A. (2015) Practical Geography: A Systematic Approach. Orient Black Swan Private Ltd., New Delhi
9. Singh, L.R., 2013: Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
10. Talukder, S., 2008: Introduction to Map Projections, EBH Publishers (India), Guwahati.
