

Detailed Syllabus

Curriculum Designed for		Grant-In-Aid
Semester: II	Course No.: 121	Course Code: DSC-1-GEO
		Course Title: Geomorphology
Credits:	04	Course Category: Major

Course Objectives:

Number	Objective
Objective 1:	To introduce the fundamental concepts of Geomorphology as a branch of geography.
Objective 2:	To develop an understanding of the origin, structure, and geological history of the Earth.
Objective 3:	To familiarize students with major geomorphological theories.
Objective 4:	To enable students to analyze the interaction between internal and external geomorphic processes in landscape evolution.
Objective 5:	
Objective 6:	

Course Outcomes: On successful completion of the course, the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO1	REMEMBERING	Recall basic concepts, definitions, and theories related to geomorphology and Earth structure.
CO2	UNDERSTANDING	Explain the origin of the Earth, its internal structure, and geomorphological processes.
CO3	APPLYING	Apply theoretical knowledge to identify various landforms and geomorphic processes in real-world contexts.
CO4	ANALYSING	Analyse the role of endogenetic and exogenetic forces in shaping the Earth's surface.
CO5	EVALUATING	Evaluate different geomorphological theories and their significance in understanding landscape development.
CO6	CREATING	

Course Contents:

Unit No.	Unit Contents	Sessions Allotted
1	Definition and scope of geomorphology, Evolution of Geomorphological Thoughts, Introduction to the Earth as a member of the Solar System.	15
2	Origin of the earth – Geological history of the earth, Interior of the earth.	15
3	Theory of Isostasy, Theory of Continental Drift, Plate tectonics, endogenetic forces – theory of mountain building and sea floor spreading, folding and faulting, earthquakes and volcanoes.	15
4	Exogenetic forces - Weathering – Physical, chemical and biological, landforms associated with Aeoline, Karst, Coastal and Glacial topography.	15

REFERENCES:

- 1) Lake, P: Physical Geography (Indian edition) MacMillan & Co., Calcutta, Mumbai, London.
- 2) Lal, D.S: Physical Geography, Sharda Pustak Bhavan, Allahabad
- 3) Monkhouse F.J.: Principles of Physical Geography
- 4) Strahler and Strahler: Modern Physical Geography, John Willey & Sons, Canada
- 5) Singh, Savindra: Physical Geography, Prayag Pustak Bhavan, Allahabad
- 6) Shah, M.R. Bhautik Bhugol, Uni. Granth Nirman Board
- 7) Shah, M.R. Bhuruprachana Shastra Uni. Granth Nirman Board
- 8) Shah, M.R. Bhutakshan Uni. Granth Nirman Board

E Resources: 1. <https://egyankosh.ac.in/handle/123456789/75484>

2. <https://ebooks.inflibnet.ac.in/geop11/chapter/chapter-1/>