

GEO101:GEOMORPHOLOGY

L:3 T:1 P:0 Credits:4

Course Outcomes: Through this course students should be able to

- CO1 :: explain the basic concepts of geomorphology
- CO2 :: describe geomorphic processes operating on the earth's surface
- CO3 :: examine geomorphic landforms created by geomorphic agents
- CO4 :: analyze geomorphic process and landform development
- CO5 :: assess the geomorphic cycles of landform development
- CO6 :: develop a critical evaluation of geomorphic principles

Unit I

Geomorphology : Fundamental concepts of Geomorphology, Nature and Scope, interior structure of earth

Unit II

Geotectonics : isostasy, continental drift, plate tectonics

Unit III

Earth movements : folding, faulting, earthquakes, volcanoes

Unit IV

Rocks and mass movements : rocks – types and classification, weathering – processes and landforms, mass wasting – processes and landforms

Unit V

Fluvial and glacial processes : fluvial processes and landforms, glacial processes and landforms

Unit VI

Aeolian, coastal and karst processes : aeolian processes and landforms, coastal processes and landforms, karst processes and landforms

Text Books:

1. PRINCIPLES OF GEOMORPHOLOGY by THORNBURY, W. D, LONGMAN PUBLISHING GROUP

References:

1. A TEXT BOOK OF GEOMORPHOLOGY by DAYAL, P, SHUKLA BOOK DEPOT
2. ELEMENT OF GEOMORPHOLOGY by KALE V. AND GUPTA, OXFORD UNIVERSITY PRESS
3. PRINCIPLES OF PHYSICAL GEOGRAPHY by MONKHOUSE, F. J, HODDER & STOUGHTON
4. GEOMORPHOLOGY by SINGH, SAVINDRA, PRAYAG PUSTAKALAYA, ALLAHABAD
5. PRINCIPLES OF PHYSICAL GEOGRAPHY by MONKHOUSE, F. J, HODDER & STOUGHTON
6. MCKNIGHT'S PHYSICAL GEOGRAPHY: A LANDSCAPE APPRECIATION by DARREL HESS, DENNIS G. TASA, PEARSON
7. GEOMORPHOLOGICAL HAZARDS AND DISASTER PREVENTION by IRASEMA ALCANTARA, ANDREW S. GOUDIE, CAMBRIDGE UNIVERSITY PRESS
8. AT RISK: NATURAL HAZARDS, PEOPLE'S VULNERABILITY AND DISASTERS by PERS BLAIKIE, TERRY CANNON, IAN DAVIS, BEN WISNER, ROUTLEDGE
9. PHYSICAL GEOGRAPHY by SINGH, SAVINDRA, PRAVALIKA PUBLICATIONS
10. PRINCIPLES OF GEOMORPHOLOGY by THORNBURY, W.D., NEW AGE INTERNATIONAL

