

ELECTIVE COURSE IN ARTS/SCIENCE		
Programme: <i>Elective Course in Arts/Science</i>		Year: I Semester: I Paper-III
Subject: Geography		
Course Code: GEOGME103	Course Title: Applied Geomorphology	
Course Outcomes:		
1. To understand the impact of landforms on various spheres of human life.		
2. To analyse the role of human being in mitigating the geomorphic hazards.		
3.The applied geomorphological knowledge is useful to scientists, engineers, consultants, and decision-makers involved with hazards, land-use planning, natural resources, environmental management, and global environmental change.		
Credits: 4		Minor Elective
Max. Marks: 25+75		Min. Passing Marks:
Total No. of Lectures-Tutorials-Practical (in hours per week): 4-0-0		
Unit	Topic	No. of Lectures
Unit I	Introduction : Definition, Nature and scope of Applied Geomorphology	10
Unit II	Geomorphic Hazards and Mitigation Measures: Landslides Flash Floods and Flood Hazards, Avalanches, Earthquakes and Tsunamis, Volcanic Eruptions.	15
Unit III	Geomorphology in Civil Engineering: Dam Construction, Road construction, Site selection for the construction of Airport	15
Unit IV	Geomorphology and Natural Resources: Geomorphology and Groundwater Studies; Soil and Geomorphology; Application of Geomorphology in agriculture and resource management.	20

Suggested Readings:

1. Coats, D.R. (1981. edt.). Geomorphology and Engineering, George Allen and Unwin, London.
2. Cooke, R.U. and J.C. Doornkamp (1974) : Geomorphology in Environmental Management, Oxford University Press.
3. Hart, M.G. (1986) : Geomorphology : Pure and Applied, George Allen and Unwin, London.
4. Gares, P.A, D.J. Sherman, and K.F. Nordstrom. 1994. Geomorphology and natural hazards. Geomorphology 10: 1-18.
5. Panizza, M. 1987. Geomorphological hazard assessment and the analysis of geomorphological risk. In V. Gardiner (ed.), International Geomorphology 1986, pp. 225-229. Part I. New York: Wiley.
6. Slaymaker, O. 1996. Introduction. In: Slaymaker, O. (Ed.), Geomorphic Hazards. Wiley, Chichester, pp. 1-7.
7. Craig, R.G. and Craft, J.L. 1982 Applied Geomorphology Allen & Unwin, London

ELECTIVE COURSE IN ARTS/SCIENCE		
Programme: <i>Elective Course in Arts/Science</i>		Year: II Semester: III Paper-III
Subject: Geography		
Course Code:GEOGME303	Course Title: Social and Cultural Diversity in Uttarakhand	
Course Outcomes: 1. To understand the physical and cultural diversity within the state. 2. To identify the impact of physical diversity in determining the Socio-Cultural diversity of the state.		
Credits: 4		Minor Elective
Max. Marks: 25+75		Min. Passing Marks:
Total No. of Lectures-Tutorials-Practical (in hours per week): 4-0-0		
Unit	Topic	No. of Lectures
Unit I	Fundamental Base: Location and Extent; Geology; Physiography; Climate and Drainage System; Demographic and Socio-cultural Characteristics.	10
Unit II	Socio-cultural Milieu: Ethnic/tribal Groups and their Spatial Distribution, Fairs, Festivals and Languages and Dialects, Settlements: Types and Patterns.	15
Unit III	Socio-cultural Diversity: Components of social diversity; tribes and their distribution; Tribal region; Cultural regions: elements of cultural regionalization: race, caste, dance, music, cuisine, costumes, dialect, language, religion.	20
Unit IV	Regional perspectives: Socio-cultural diversity in the tribal groups of mountains and foothills; Changing cultural adaptations.	15

Suggested Readings:

1. Singh O.P. (ed.). (1983): The Himalaya: Nature, Man and Culture
2. Joshi, S.C. (2001): Uttaranchal: Environment & Development
3. Planning Commission (1981) : Report on Development of Tribal Areas, Government of India.
4. Srivastava, S.K.(1958): The Tharus, A study of Culture Dynamics, Agra
5. Walton, H.G. (1921) British Garhwal: A Gazetteer, Vol. xxxvi, District Gazetteer of the United Provinces of Agra and Awadh, Allahabaad
6. Singh, L.R. (1965): The Tarai Region of U.P., Allahabad
7. Guha, B.S.: Racial Elements in India's Population.

Suggested Online Link:

Suggested equivalent online courses: