Introduction

- Definition and Scope
- Development of Science of Geomorphology
- Muslims Contribution to the Science of Geomorphology

Models of Landform Development

- o Structural Landform
- o Weathering Landforms
- o Erosional Landforms
- o Depositional Landforms

Geomorphic Process

- o Endogenetic Processes
- o Exogentic Processes
- o Extraterrestrial Processes

Weathering

- o Physical Weathering
- o Chemical Weathering
- o Biological Weathering

Mass Wasting

- Slow Flowage Type
- o Rapid Flowage Type
- o Subsidence

Glacier

- o Genesis and Motion
- Classification
- o Nourishment and Wastage
- o Erosional and Deposition Landforms

Fluvial Processes

- o Fluvial Cycle
- o Rejuvenation
- Idealised Fluvial Cycle
- o Complications of the Field Cycle
- Drainage Pattern

Arid Cycle and Aeolian Landforms

- o Forms of Wind Erosion
- Wind Transportation
- Wind Deposition
- Karst Topography
- Development of Karst Landscape

BS Geography w.e.f. Academic Session 2018-2022 and onward

Characteristic of Karst Features

Quantitative Geomorphology

- Methods of Geomorphological Investigation
- Morphometric Analysis
- Material Properties
- Process and Evolution

• GIS and RS Applications

- o Data Acquisition
- Digital Terrain Modelling
- Feature Extraction

Books Recommended:

- Aronoff, S. 1995 Geographic Information Systems: A Management Perspective, Wdl Publications, Ottawa, fourth edition Canada
- 2. Cotton, C.A. 1949 Geomorphology An Introduction to the Study of Landform, John Wiley New York.
- 3. Drwry S.A. 1990 A Guide to Remote Sensing and Image Processing, University Press Oxford.
- 4. Englen O.D.V. 1942 Geomorphology, Macmillan New York
- 5. John. R.J. 1996 Introduction to Digital Image Processing. Prentice Hall.
- 6. Lobeck, A.K. 1939 Geomorphology, Macmillan New York.
- 7. Sparks, B.W. 1986 Geomorphology, Longman London.
- 8. Steers, J.A.1964 Unstable Earth.
- 9. Thomas M. Lillesand & Ralph W. Kiefer 2004 Remote Sensing and Image Interpretation. John Wiley & Sons Inc.
- 10. Thornsbury, W.D. 1983 Principles of Geomorphology, John Wiley New York
- 11. Paul J. Curran, 1985 Principles of Remote Sensing. Longman Group Ltd.
- 12. Wooldrige S.W. 1966 An Outline of Geomorphology, Physical Basis of Geography, Longman.