

No.AC.2(S)/785/19-20

### **NOTIFICATION**

**Sub:** Introduction of Fluvial Geomorphology paper (III Semester) in M.Sc. Geography from the Academic Year 2019-20.

- Ref:** 1. Decision of Board of Studies in Geography (PG) meeting held on 27.12.2018.  
2. Decision of the Faculty of Science & Technology Meeting held on 01.04.2019.  
3. Decision of the Academic Council meeting held on 07.06.2019.

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The Board of Studies in Geography (PG) which met on 27.12.2018 has recommended to introduce **fluvial Geomorphology paper** (III Semester) in M.Sc. Geography from the Academic Year 2019-20.

The Faculty of Science and Technology and the Academic Council meetings held on 01.04.2019 and 07.06.2019 respectively have approved the above said proposal and the same is hereby notified.

The modified syllabus of **Fluvial Geomorphology paper** (III Semester) for M.Sc. Geography course is annexed. The contents may be downloaded **from the University Website i.e., [www.uni-mysore.ac.in](http://www.uni-mysore.ac.in)**.

Draft approved by the Registrar

Sd/-  
**Deputy Registrar (Academic),**

**To:**

1. The Registrar (Evaluation), University of Mysore, Mysore.
2. The Dean, Faculty of Science & Technology, DOS in Zoology, Manasagangotri, Mysore.
3. The Chairperson, BOS in Geography, DOS in Geography, Manasagangotri, Mysore.
4. The Chairperson, Department of Studies in Geography, Manasagangotri, Mysore.
5. The Director, College Development Council, Moulya Bhavan, Manasagangotri, Mysore.
6. The Deputy/Assistant Registrar/Superintendent, AB and EB, UOM, Mysore.
7. The P.A. to the Vice-Chancellor/Registrar/Registrar (Evaluation), UOM, Mysore.
8. Office file.

## Third Semester

### **Title of the Paper-9 : FLUVIAL GEOMORPHOLOGY**

**UNIT-I.** The Application of GIS and Remote Sensing In Study of Fluvial Geomorphology

**UNIT-II.** Tectonic modification of Rivers

- i) Co- seismic modification of River system
- ii) Gradual change of river system
- iii) Longitudinal profiles
- iv) River pattern sinuosity
- v) Bed rock channel path river
- vi) Alluvial channel path river
- vii) Integrated models of tectonic adjustment of rivers

**UNIT-III.** Ground Fluvial Hydrology

- i) drainage network and drainage pattern
- ii) open channel hydraulics'
  - a) Types of flow
  - b) Regimes
  - c) Stream density
  - d) Gradient geological structure

**UNIT-IV:** Fluvial geomorphology with reference to Cauvery river basin  
The applied geomorphology and ground water studies  
Watershed Management in Cauvery basin.

### **Reference:**

1. Fundamentals of Fluvial Geomorphology by Charlton Ro (Paperback - Dec 26, 2007)
2. Fluvial Processes in Geomorphology by Luna B. Leopold, M. Gordon Wolman, and John P. Miller (Paperback - Jun 28, 1995)
3. Tools in Fluvial Geomorphology by G. Mathias Kondolf and Hervé Piégay (Hardcover - April 11, 2002)
4. Fluvial Forms and Processes: A New Perspective by David Knighton (Paperback – April 1998)
5. Rivers and Floodplains: Forms, Processes, and Sedimentary Record by John S. Bridge (Paperback - April 25, 2003)

CHAIRMAN BOS  
DOS IN GEOGRAAPHY