

Address : UNIREG
Telephone No. : 2419677/2419361
Fax : 0821-2419363/2419301

e-mail : registrar@uni-mysore.ac.in
www.uni-mysore.ac.in

UNIVERSITY OF MYSORE



Estd. 1916

VISHWAVIDYANILAYA KARYA SOUDHA
CRAWFORD HALL, POST BOX NO. 406
MYSORE-570 005

No.AC.2(S)/401/13-14

Dated: 24-05-2014

NOTIFICATION

Sub: Modification of the existing syllabus

Ref: 1. Proceedings of Faculty of Science & Technology Meeting held on 14-02-2014.
2. Proceedings of the Meeting of Academic Council held on 29-03-2014.

The Board of Studies in **Geography (PG)** at its meeting held on 21-11-2013 has resolved to reframe the existing Geography syllabus of PG programme from the academic year 2014-15

The Faculty of Science and Technology and the Academic Council at their meetings held on 14-02-2014 and 29-03-2014 respectively approved the above proposals and the same is hereby notified.

The copy of the modified syllabus of Geography (PG) is annexed herewith.

S. Sampath
REGISTRAR
UNIVERSITY OF MYSORE

To

1. The Registrar (Evaluation), University of Mysore, Mysore.
2. The Chairperson, BOS/DOS in Geography, MGM
3. The Dean, Faculty of Science & Technology, DOS in Zoology, MGM.
4. The Principals of the Affiliated Science Colleges.
5. The Deputy/Assistant Registrar (Evaluation), University of Mysore, Mysore.
6. Sri Narasimha Murthy, Statistician, E.B. UOM, Mysore.
7. The Supdt AC.1 & AC.2, A.B., Academic Section / PMEB, UOM., Mysore.
8. The P.A. to the Vice-Chancellor/Registrar/Registrar (Evaluation), UOM., Mysore.
9. The Case Worker, AC.7, Academic Section, University of Mysore, Mysore.
10. The Section Guard File(Supdt.AC.2), A.B., A.C., UOM.
11. The Schedule File.

	EXISTING PAPER	SEMISTER	CREDITS	RECOMMEND CHANGE	PAPER
1	GEOLOGICAL BASIS OF GEOMORPHOLOGY	FIRST/ Honors in geography	3	Change in title as "Principles of Geomorphology in Geomorphology" Minor change in the content of syllabus. (syllabus annexure I)	Hard core
2	-	second	3	Introduction of new paper "principles of Geomorphology"(syllabus annexure I)	Soft core
3	Fluvial Geomorphology	Third	3	Minor changes in syllabus(syllabus annexure I)	Soft core
4	-	fourth	2	Introduction of new Paper paper "APPLIED GEOMORPHOLOGY"(syllabus annexure I)	Soft core

Name of the Department: GEOGRAPHY

Course: M.Sc

Semester: II

Paper Code	Title of the course	HC/SC/OE	L	T	P	Credit	Name of the faculty
	Applied Climatology	HC	2	1	0	3	HN
	Conceptual Development in Geography	HC	2	1	0	3	AN
	Techniques of Analysis in Human Geography	HC	0	0	3	3	BNS
	Research Methods in Geography	SC	2	1	0	3	-
	Medical Geography	SC	2	1	0	3	BCS
	Tourism Geography	SC	2	1	0	3	HN
	Urban Geography	SC	2	1	0	3	BCS
	Water Resources Management	SC	2	1	0	3	ADS
	Spatial Analysis & Modeling in GIS	SC	2	0	1	3	AN
	PRINCIPLES OF GEOMORPHOLOGY	SC	2	0	1	3	ADS
	GIS and Remote Sensing	OE	3	1	0	4	SSS
	Physical basis of Geography	OE	3	1	0	4	ADS

Name of the Department: GEOGRAPHY

Course: M.Sc

Semester: III

Paper Code	Title of the course	HC/SC/OE	L	T	P	Credit	Name of the faculty
	Introduction to Remote Sensing	HC	2	1	1	4	AN
	Methods of Regional Analysis	HC	2	2	0	4	BNS
	Advanced Surveying and Photogrammetry	HC	0	0	3	3	SSS
	Transportation Geography	SC	2	1	0	3	HN
	Monsoon Climatology with reference to India	SC	2	1	0	3	HN
	Environmental Impact Assessment	SC	2	1	0	3	PJ
	Population, Resource and Development.	SC	2	1	0	3	BNS
	Fluvial Geomorphology	SC	2	1	0	3	ADS
	Introduction to Human Geography	OE	3	1	0	4	BCS

Name of the Department: GEOGRAPHY

Course: M.Sc

Semester: IV

Paper Code	Title of the course	HC/S C/OE	L	T	P	Credit	Name of the faculty
	Economic Geography	HC	3	1	0	4	PJ
	Multivariate Statistics	HC	2	1	1	4	-
	Dissertation	HC	0	0	5	5	All Teachers
	Global Geo-politics	SC	1	1	0	2	AN
	Geographical Perspectives of Globalization	SC	1	1	0	2	BCS
	Disaster Management	SC	1	1	0	2	ADS
	Regional Development Planning in India	SC	1	1	0	2	BNS
	Bio-Geography	SC	1	1	0	2	PJ
	Advanced Application of Remote Sensing	SC	1	0	1	2	AN
	APPLIED GEOMORPHOLOGY	SC	1	0	1	2	ADS
	Geography of India	OE	3	1	0	4	HN
	Geography of Karnataka	OE	3	1	0	4	PJ

HC: Hard Core, E: Elective, OE: Open Elective

Teachers: BNS: Dr.B.N.Shivalingappa ,

HN: Dr. H.Nagaraj, AN: Dr. Asima Nusarth : BCS: Dr. B.Chandrashekar ,

SSS: Dr, Subash. S. Sannashiddannanavar, PJ: Dr. P.Jayashree,

ADS: Dr. S.Arun Das

FOR 2013-2014 BATCH

SEM	Hard Core Compulsory	ELECTIVES		Open Electives Offered	Total
		Offered selected	To be		
FIRST	9	15	9	nil	
SECOND	9	18	9	8	
THIRD	11	15	6	4	
FOURTH	13	12	2	8	
TOTAL	42	60	26	20	68

Soft core papers: (Electives) Out of the total number of courses offered in each semester, the candidate should opt only THREE courses in I, II, and III semesters. In IV th semester the candidate should opt only ONE course.

ANNEXURE I

RECOMMENDED SYLLABUS

PRINCIPLES OF GEOLOGY IN GEOMORPHOLOGY

(FIRST SEMESTER/ HONORS IN GEOGRAPHY /3 CREDITS /HARD CORE)

I.

Principles of Geology

- i. Geological Time Scale
- ii. Interior of the Earth
- iii. Age of the Earth theories
 - A. Salt Theory
 - B. Paleo Magnetic Theory
 - C. Radio Metric Dating.
 - D. Dendro Chronology and Dendro Climatology

II. Stratigraphy

- i. Forms of Stratigraphy
 - A. Chronological Stratigraphy
 - B. Litho Stratigraphy
 - C. Bio stratigraphy
 - D. Magneto Stratigraphy
 - E. Seismic Stratigraphy

III. Structural Deformations

- A. Structural Stress, Strain
- B. Folds and faults
- C. Earthquakes
- D. Identification of Structural Deformation
 - Conformities and unconformities
 - a. Disconformity
 - b. Unconformity
 - c. Angular Disconformity

IV. Major Geological Structures.

- Major Geological Structures of India
- Major Geological Structures of Karnataka.
- Geological Structures of Cauvery Basin

PRINCIPLES OF GEOMORPHOLOGY
(SECOND SEMESTER/ SOFT CORE /3 CREDITS)

1. Fundamental Concepts of Geomorphology
 - a. Ten Concepts of Thornbury
 - b. Principle of Uniformitarianism
 - c. Cycle concepts, Views of W.M. Davis, Penk and L C King

2. Isostasy:
 - a. Views of Prat, Airy and Bowie
 - b. Concepts of Earth's Equilibrium and Gravity Anomaly

3. Crustal Deformation Theories and Principles
 - a. Tetrahedron, Wegner's Continental Drift Theory
 - b. Holmes Convection current Theory
 - c. Joly's Radio Activity Theory
 - d. Daly's subsidence Hypothesis

4. Plate tectonics
 - a. Development of Plate Tectonic Theory
 - b. Major and Minor Plates
 - c. Plate Movement and Forces.
 - i. Convectional Current
 - ii. Inner Core current
 - iii. Thermal Flumes
 - iv. Paleo Magnetism

 - d. Plate Margins and Associated Landforms
Validation of Plate Tectonics.

References:

1. Thornbury William., 1954. "Principles of Geomorphology"., Wiley Eastern Limited., New Delhi.
2. Dogulas.W. Burbank and Robert S. Anderson., 2001. "Tectonic Geomorphology"., Backwell Science.Inc., USA.
3. John R.hails., 1977. "Applied Geomorphology" Elsevier Scientific publishing Company, New York. 10017.
4. Tikka Physical Geography.

FLUVIAL GEOMORPHOLOGY

(THIRD SEMISTER/ CREDITS-3/ SOFT CORE)

Unit I. Introduction to Fluvial Geomorphology

- a. Climatic Impact on Geomorphology
- b. Mechanism of Indian Monsoon
- c. Quaternary Geomorphological Regimes of India

Unit II. Ground Fluvial Hydrology

- a. Drainage network and drainage pattern
- b. Valley Profile
- c. channel hydraulics
- d. Stream density
- e. Drainage Basins

Unit III. Structural Deformations and Fluvial.

- a. Responses with special reference to Cauvery Basin.
- b. Diastrophic Deformation and Signatures
- c. Sudden Deformation and Signatures.
- d. Paleo Climatic Deformation and Signatures

Unit IV. Application of GIS and Remote Sensing In Study of Fluvial Geomorphology

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

NEW PAPER TO BE INTRODUCED

APPLIED GEOMORPHOLOGY

(FOURTH SEMESTER SOFT CORE/ 3 CREDITS)

- I Basic concepts in applied geomorphology.
 - Application of geomorphic mapping and GIS
 - Terrain evaluation, classification and its application

- II Applications of Geomorphology in Urban Planning.
 - i. Urban geomorphology
 - ii. Geomorphic impacts on urbanization
 - iii. Geomorphology and Habitat Characteristics
 - iv. Geomorphic controls in urban expansion
 - v. Geomorphology and urban water supply and road construction.
 - vi. Remote sensing application in urban geomorphology

- III. Applications of Geomorphology in Groundwater prospecting and watershed management.

- IV. Application of Geomorphology in Regional Planning and Disaster Management.

Reference:

1. R.L Singh: Elements of practical Geography, Kalyani Publications. 2005
2. RP. Mishra: Fundamental Cartography, Concept publication, New Delhi. 2001
3. R.Hammond and P.Mecullagh: Quantitative techniques in Geography. Claredon press, oxford. 1975.
4. Anson R.W and Colour use guidelines for mapping and visualization “visualization in modern Geography” Oxford.

ASIMA NUSRATH
CHAIRMAN,BOS(PG & UG)

