

University of Mysore
Department of Geography, Manasa Gangotri, Mysore

Name of the Department: GEOGRAPHY

Course: M.Sc

Semester: I

FOR 2014-2015 BATCH ONWARDS

Paper Code	Title of the course	HC/S C/E	L	T	P	Credit	Name of the faculty
	Principles of Geology in Geomorphology	HC	2	1	0	3	ADS
	Fundamentals of GIS	HC	2	1	0	3	PJ
	Techniques of Analysis in Physical Geography Part-I	HC	0	0	3	3	BCS
	Social Geography	SC	2	1	0	3	SSS
	Geography of Population Dynamics	SC	2	1	0	3	BNS
	Agricultural Geography	SC	2	1	0	3	HN
	Resource Conservation & Management	SC	2	1	0	3	PJ
	Thematic Cartography	SC	2	1	0	3	AN

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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

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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

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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.Chandrashekara ,

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

ADS: Dr. S.Arun Das

FOR 2014-2015 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

Modified syllabus

IV Sem Applied Geomorphology (Theory)		
Soft Core 2		
Existin	Modified	
UNIT I	Basic Concepts in Geomorphology	Applications of Geomorphology in Ground Water Assessment
	Applications of Geomophic Mapping and	Drainage Pattern.
	Terrain Evaluation, Classification and its application	Stream Order,
		Stream Density,
	Bifurcation Index,	
	Micro Basins,	
	Water Sharing problems, causes and	
UNIT II	Applications of Geomorphology in Urban	Applications of Geomorphology in Urban Planning
	Urban Geomrophology	Techniques of Demarcation of Urban Boundary
	Geomorphic Impact	Geomorphological Implications on Urban Land Use and Land Cover
	Geomorphology and Habitat Characterization	Geomorphological Classification of Urban Land and its importance
	Geomorphic Cantrols in Urban Exapansion	Drainage Network oriented urban Planning
	Geomorphology and Urban Water	Importance of Mapping Lineaments and Fractured zones
	Remote Sensing applications in Urban	Gemorphological Determinets based Land Use allocation for Residential, Educational, Commercial, Industrial, Recreational, Railway Station, Airport,
UNIT III	Application of Geomorphology in Ground Water Prospecting and Waterng	Applications of Geomorphology in Agriculture Planning
		Techniques of Mapping Climatic zones
		Techniques of Mapping Soil zone
		Importance of Agro Climatic Classification
		Land Suitability Techniques.
	Methods of Classifying Crop Regions	
UNIT IV	Application of Geomorphology in Regional Planning and Disaster Management	Application of Geomorphology in Regional Planning and Disaster Management
		Concept of a Region
		GIS assisted Regional Planning Techniques
		Role of Geomorphology in Regional Planning
	GIS and Geomorphology Assisted Flood and Earthquake Susceptible regions	

		Applied Geomorphology Practicals
		Modified
UNIT I		Techniques of terrain mapping: Slope and Aspect map, Calculation of gradient and slope- per cent gradient and Angle of the slope, Altimetric frequency analysis, Hypsometric and area height curves.
UNIT II		Morphometric analysis- Stream order analysis, Bifurcation Ratio Analysis, Sinuosity Index, Drainage density Analysis, Drainage Frequency Analysis, River flow analysis Rainfall discharge relationship, Drawing of Thalweg profiles.
UNIT III		Ground Water Assessment Analysis:
		Extraction of Geological Sections, Relief, Slope, Drainage, Stream Orders
		Vegetation, Precipitation, Weight age and Scoring Techniques. Over Lay Analysis
UNIT IV		Urban Morphology Mapping Techniques and Analysis
		GIS and RS Techniques of Urban Boundary Extraction and Mapping
		Supervised and Un supervised classification of urban land use mapping.
		Extracting and Classification of Geomorphological terrain for urban planning
		Model Building for a new city planning
		Flood water Inundation zone mapping Techniques.

	Applied Geomorphology Practicals	
	1 Credits	
	(To be Taught on Arc GIS and Erdas Platform)	
	Newly Introduced	
	Existing	Modified
UNIT I	NIL	Techniques of terrain mapping: Slope and Aspect map, Calculation of gradient and slope- per cent gradient and Angle of the slope, Altimetric frequency analysis, Hypsometric and area height curves.
UNIT II	NIL	Morphometric analysis- Stream order analysis, Bifurcation Ratio Analysis, Sinuosity Index, Drainage density Analysis, Drainage Frequency Analysis, River flow analysis, Rainfall discharge relationship, Drawing of Thalweg profiles.
UNIT III	NIL	Ground Water Assessment Analysis: Extraction of Geological Sections, Relief, Slope, Drainage, Stream Orders Vegetation, Precipitation, Weight age and Scoring Techniques. Over Lay Analysis
UNIT IV	NIL	Urban Morphology Mapping Techniques and Analysis GIS and RS Techniques of Urban Boundary Extraction and Mapping Supervised and Un supervised classification of urban land use mapping. Extracting and Classification of Geomorphological terrain for urban planning Model Building for a new city planning Flood water Inundation zone mapping Techniques.

ASIMA NUSRATH
CHAIRMAN,BOS(PG & UG)

(ANNEXURE II)

UNIVERSITY OF MYSORE
DEPARTMENT OF GEOGRAPHY
PANEL OF EXAMINERS FOR THE POST GRADUATE DEGREE
EXAMINATIONS FOR THE YEAR OF 2015-16

INTERNALS EXAMINERS

1. Dr. Asima Nusrath,
Associate Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
2. Dr. B.N. Shivalingappa,
Associate Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
3. Dr. H. Nagaraj,
Associate Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
4. Dr. Subash.S.Sannasiddannanavar,
Associate Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
5. Dr. B. Chandrashekara,
Associate Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
6. Dr. P. Jayashree,
Assistant Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.

7. Dr. S. Arundas,
Assistant Professor
DOS in Geography,
Manasa Gangothri, Mysore-6.
8. Dr . Srikanta Prasad
Professor of Geography
P.G.Centre, Department of Geography,
Maharani's Arts & Science College,
Mysore.

EXTERNAL EXAMINERS:

1. Prof. A.S. Rayamane,
2. DOS in Geography, Bangalore University, Jnanabharathi, Bengaluru.
560056
3. Dr. Ashok Hanjagi,
Associate Professor, DOS in Geography, Bangalore University,
Jnanabharathi, Bengaluru. 560056
5. Dr. A.A Mulimani
Associate Professor, DOS in Geography, Karnataka University,
Dharwad.
6. Prof. S.I. Biradar,
DOS in Geography, Karnataka University, Dharwad.
7. Dr. Hurkadli. S.M.
Assistant Professor, DOS in Geography, Rani Chennamma University,
Belgaum.
8. Dr. P.K.Vijayan
Assistant Professor, DOS in Geography, Kannur University,
Payyanur-670327, Kannur, Kerala.
9. Prof. Aruchamy,
DOS in Geography, Bharathidasan University, Thiruchinapalli,
Tamilnadu.
10. Prof. Kumaraswamy,
DOS in Geography, Bharathidasan University, Thiruchinapalli, Tamilnadu.

11. Prof. Krishna Kumari,
Department of Geography, S.K. University, Ananthapur-515003(AP)
12. Prof. Sulochana Shekar
Associate Professor, Department of Geography,
Central University of Gulburga
13. Dr. Madasuresh
Associate Professor, Department of Geography, Madras University,
Cheupak, Chennai
14. Dr. R. jagannathan
Associate Professor, Department of Geography, Madras University,
Cheupak, Chennai
15. Prof. Chandradu, DOS in Geography, S.V University, Tirupati
16. Prof. B. Hemamaline, Professor of Geography, Andhra University,
Waltair A.P
17. Prof. B.C Vaidya, Professor & Chairman, Dept. of Geography,
Pune University, Pune- 411007.
- 18 Dr. Saravanabhavan
Assistant Professor, department of geography, Madurai Kamaraja
University. Madurai
19. Emyavarambhan
Associate Professor, department of geography, Madurai Kamaraja
University. Madurai
20. Dr. Bhaskar G.
Department of geography, Madras University.
21. Dr. M.Sakthivel
Assistant Professor, department of geography, Madras University.

22. Jagan Kumar
Assistant Professor, department of geography, Bharathidasan University,
Trichy.
23. Dr. Thangamani, Assistant Professor, Madurai Kamaraja University,
Madurai
24. Dr. Manonmani,
Assistant Professor, Department of geography, Madurai Kamaraja
University, Madurai.
25. Dr. Balasubramanya
Assistant Professor, Bharathidasan University, Trichy.