

BHARATHIAR UNIVERSITY, COIMBATORE.
M. Sc. APPLIED GEOGRAPHY (Affiliated Colleges)
(Effective from the academic Year 2012-2013)
SCHEME OF EXAMINATIONS – CBCS PATTERN

Sem.	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.Hrs.	CIA	Marks	Total Marks	
I	Paper I	Principles of Geomorphology	6	3	25	75	100	4
	Paper II	Theoretical and Applied Geomorphology	6	3	25	75	100	4
	Paper III	Geography of India	6	3	25	75	100	4
	Paper IV	Advanced Cartography	6	3	25	75	100	4
	Elective	Paper I Remote sensing and its applications in Geography	6	3	25	75	100	4
II	Paper V	Applied Climatology	5	3	25	75	100	4
	Paper VI	Environmental Studies And Management	5	3	25	75	100	4
	Paper VII	Geographical Thought	5	3	25	75	100	4
	Practical I	Techniques Of Terrain Mapping	5	3	40	60	100	4
	Practical II	Mapping Of Quantitative and Qualitative Data	5	3	40	60	100	4
	Elective	Paper II Digital Image Processing	5	3	25	75	100	4
III	Paper VIII	Computer Applications in Geography	6	3	25	75	100	4
	Paper IX	Urban Geography	6	3	25	75	100	4
	Paper X	Agricultural Geography	6	3	25	75	100	4
	Paper XI	Geography of Population	6	3	25	75	100	4
	Elective	Paper III-GIS and GPS	6	3	25	75	100	4
IV	Paper XII	Quantitative Techniques	6	3	25	75	100	4
	Paper XIII	Disasters Mitigation and Management	6	3	25	75	100	4
	Paper XIV	Regional Planning and Development	6	3	25	75	100	4
	Practical III	Methods of Data Analysis	6	3	40	60	100	4
	Project	Project Work	-	-	-	-	150*	6
	Elective	Practical in Geo-informatics	6	3	40	60	100	4
		Total					2250	90

* Project report -120 marks; Viva-voce – 30 marks.

Guidelines for Project Report :

Phase I - Presentation of the project proposal with the aims, objectives, hypothesis, methodology, study area and chapterisation. This has to be presented which carries 40 marks.

Phase II – Includes Data source, Collections, Techniques to be adopted etc. to be presented carries 40 marks.

Phase III – Presentation of final report carrying 40 marks.

Note :

1. The Syllabus for the above papers (Except Core paper VIII – Computer Applications in Geography, Core paper XIII - Disasters Mitigation and Management & Elective Paper I - Remote sensing and its applications in Geography) be the same as prescribed for the academic year 2007- 08. The existing Diploma papers are renamed as Elective papers.
2. The syllabus for the Core paper VIII – Computer Applications in Geography, Core paper XIII - Disasters Mitigation and Management & Elective Paper I - Remote sensing and its applications in Geography are furnished below:

PAPER VIII - COMPUTER APPLICATIONS IN GEOGRAPHY

UNIT I

Basics in Computer in Geography, Scope, Content and meaning need of computer in Geography

UNIT II

Basic elements; inputs and output devices – storage space – software – operating systems and networking system.

UNIT III

Use of Microsoft, Word - Power Point – Excel – Access and Graphics.

UNIT IV

Data Base Management System: Definition – data and information – DBMS – concepts in data base management system: Security, Integrity, Synchronization – Minimization of redundancy –RDBMS.

UNIT V

Computer applications in physical , human and settlement Geography- Cartography, remote sensing and GIS..

REFERENCE:

1. Dr. M. Anji Reddy, (2000) Remote Sensing and GIS (An introduction)
Bookionics, Hydrabad.
2. Burrough, P.A (1986) Principles of Geographic Information System and Land Resource Assessment, Clarendon Press, Oxford.

Core paper XIII - Disasters Mitigation and Management

Unit II

Disasters – Meaning and Types – Needs for study – Disasters Management.

UNIT II

Impact of Earthquake – Tsunamis and Volcanoes and their Management.

UNIT III

Impact of Storms, floods and Mass Movements and Management.

UNIT IV

Impact of Drought and Famine and Forest Fire – Management.

UNIT V

Impact of Man-made disasters and their management.

RECORD.

BOOKS FOR REFERENCE :

1. Natural Disasters by Partick L. Abbott., WCB WM.C. Brown Publishers.
2. The Changing Earth-Exploring Geology & Evolution by James S.Monore & Reed Wicander BROOKS / COLE.
3. Natural Disasters : A guide for Relief Workers (1980) JAC Adhyatma Sadhana Kendra, Mehruali, New Delhi – 110 030.
4. Disaster Planning : The Preservation of Life and Property, Harold D.Faster (1980) Springer Verlag, New York.
5. Disasters Management, Shailendra K. Singh, Subash C.Kundu & Shobu Singh (1998) Mittal Publications, New Deldhi.
6. Natural Disaster Reduction, Girish K. MIshra & Mathur. G.C. (1993), Reliance Publishing House, New Delhi.
7. Disaster Preparedness in India, Narendra Kumar Jain, Adhyatma Sadhana Kendra, Mehruali, New Delhi.
8. UN Manual on Disaster Management.
9. www.gisdevelopment.net

Elective Paper I : Remote sensing and its applications in Geography

1. Over view of Remote Sensing and Remote Sensing Systems – EMR and its characteristics – Interaction of EMR with atmosphere and earth features – atmospheric windows – types of remote sensing – platforms – sensors – errors and corrections – Ground Truth Verification.
2. Aerial Remote Sensing : History – Aerial cameras – films – photographs - elements of photographs: marginal information and scale – measurement of scale - stereo model – relief displacement – measurement of height – elements of photo interpretation .
3. Remote sensing satellites – LANDSAT – SPOT – ERS – JRS – IKONOS – QUICK BIRD – orbiting characteristics – resolution and sensor characteristics – other remote sensing satellites.
4. Indian Remote Sensing satellites – resolution and scanning characteristics - Satellite data products.
5. Applications of Remote Sensing in Geography: Geomorphology – Land use / Land cover agriculture – water resources – urban planning – environmental assessment.

REFERENCES:

American Society of Photogrammetry, (1982) : **Manual of Photogrammetry**, IV Edition.

Anji Reddy, M., (2001) : **Remote Sensing and Geographical Information System**, BS Publications, Hyderabad.

Avery T.E., and G.L. Berlin, (1992) : **Fundamentals of Remote Sensing and Air Photo Interpretation**, V Edition, Macmillan, New York.

Joseph, George., (2003) : **Fundamentals of Remote Sensing**, Universities Press, Hyderabad.

Lillesand, T.M., (1994) : **Remote Sensing and Image Interpretation**, John Wiley and Sons, New York.