

BHARATHIAR UNIVERSITY
M. Sc. GEOGRAPHY (Affiliated Colleges)
(Effective from the academic Year 2019-2020))
SCHEME OF EXAMINATIONS – CBCS PATTERN

Sem.	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.Hrs.	CIA	Marks	Total Marks	
I	Paper I	Geomorphology	6	3	25	75	100	4
	Paper II	Oceanography	6	3	25	75	100	4
	Paper III	Geography of India	6	3	25	75	100	4
	Paper IV	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	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	Research Methodology 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 30 marks.

NOTE: The syllabus for the following papers furnished below to be followed for the candidates admitted from the Academic Year 2019-2020 onwards and there is no change in the syllabi of the remaining papers

SEMESTER I

PAPER - IV
CARTOGRAPHY

UNIT I

Meaning and scope of Cartography – Historical development – maps – Types of maps – Base map – Compilation and Generalization of maps

UNIT II

Map design and layout – Lettering and Toponymy – Tools and Techniques – Map construction and reproduction – Developing process – Photographic and printing.

UNIT III

Symbolization and processing data – Statistics database- Cartometry – use of diagram on maps – Point – Line and Area, Volume symbols – Qualitative and Quantitative maps.

UNIT IV

Mapping the geological structure and relief and terrain data – Mapping the climatological and Hydrological data – Mapping the socio economic data.

UNIT V

Recent development in the field of Cartography – Computers and Cartography – Digital Cartography – 3d Cartography.

REFERENCE:

1. Robinson A.H. Elements of Cartography, John Wiley, London.
2. Erwin Raiz General Cartography, Mc Graw Hill Company., New York.
3. Mishra R.P. & Ramesh A. Fundamentals of Cartography, Concept Publication, New Delhi.
4. Lawrence G.R.P (1979) Cartographic Methods, Methuen, London.
5. Burroughs, Geographic Information System, Principles.

SEMESTER II
PAPER-V
CLIMATOLOGY

UNIT I

Nature – Scope and Development – Recent trends in Applied Climatology – importance.

UNIT II

Heat balance – General circulation of the atmosphere – Monsoon – Mechanism of Indian monsoon – Climatic classification – Climatic changes in the past.

UNIT III

Applied Climatology – Climate and agricultural relations – Water balance – Agro climate – Agro Climatic classification – droughts – Crop calendar.

UNIT IV

Impact of climate on industries and health – Climatic perception – urban climate – Climate – Human comfort zone.

UNIT V

Weather information and forecasting – weather data – method of collection – Types of forecasting – Role of meteorological departments and satellite in weather forecasting – application of weather forecasting.

REFERENCE: Trewartha G.T. (1968) Introduction to climate McGraw Hill New York.

1. Critch field H.J.(1975) General climatology, Prentice Hall New Delhi.
2. Lal D.S. (1986) Climatology, Chaitanya Publishing house, Allahabad.
3. Smith Applied Climatology.