

SYLLABUS & PROGRAMME STRUCTURE

Geography

(Honours)

(Choice Based Credit System)

(Effective from the Academic Session 2017-2018)

Fourth Semester

MAHARAJA BIR BIKRAM UNIVERSITY
AGARTALA, TRIPURA: 799004

PROGRAMME STRUCTURE

Structure of Proposed CBCS Syllabus BA/BSc/B.Com Honours.

Semester	Core Course (14) Honours	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Discipline Specific Elective (DSE) (4)	Generic Elective (GE) (4)
1	C1 C2	AECC1: Environmental Science			GE1 (Paper-I of selected subject other than Hons subject)
2	C3 C4	AECC2 : (English/MIL (Communication))			GE2 (Paper-II of selected subject other than Hons subject)
3	C5 C6 C7		SEC1		GE3 (Paper-III of selected subject other than Hons subject)
4	C8 C9 C10		SEC2		GE4 (Paper-IV of selected subject other than Hons subject)
5	C11 C12			DSE1 DSE2	
6	C13 C14			DSE3 DSE4	

Semester – IV
Core Course: Paper - VIII
Fluvial Geomorphology (Theory)

TOTAL MARKS – 100
(Theory – 70, Practical-30)

Unit – I

- Definition, nature and subject matter.
- Drainage basin as a geomorphic unit.
- Hydrological cycle of a drainage basin.
- Run-off cycle.
- Factors affecting run-off .
- Run-off – Rainfall relationship.
- Types of channel flow.

Unit – II

- Classification of streams.
- Drainage patterns and channel patterns.
- Processes of river erosion, transportation and deposition.
- Fluvial erosion and deposition landforms.
- Problems associated with river erosion.
- Problems associated with channel deposition.

Unit – III

- Different types of sediment load.
- Settling velocity of small particles, Stoke's Law.
- Competency and capacity of river.
- Concept of grade.

Unit – IV

- River regime.
- Fluvial hazard and disaster management.
- Causes, consequences and management of flood.
- Causes and mitigation measures of river bank erosion.
- Causes and mitigation measures of channel bed sedimentation.

Internal Assessment – 10 marks

Suggested Readings:

1. Thornbury, W. D. (2002): *Principles of Geomorphology*, Wiley Eastern Ltd., New Delhi.
2. Leopold, L. B., Woolman, M. G. & Miller, J. P. (1995): *Fluvial Processes in Geomorphology*, Dover Publications, New York.
3. Mukhopadhyay, M. and Mukhopadhyay, S. (2012): *Advance River Geography*, acb Publications, Kolkata.
4. Singh, S. (2017): *Environmental Geography*, Pravalika Publications, Allahabad.

Practical
Core Course – Paper - VIII

Total Marks – 30

- Construction and analysis of Hydrograph and Rating Curve of Perennial and Non-perennial rivers.
- Delineation of drainage basin in Survey of India topographical map (1:50,000).
- Stream ordering after Horton, Strahler, Shreve and Scheidegger.
- Calculation of Bifurcation Ratio.
- Graphical relation between stream order, stream number and stream length.

Internal Assessment – 10 marks

Suggested Readings:

1. *Devi, H. I. (2000): River Basin Morphology, Rajesh Publications, New Delhi.*
 2. *Singh, C. P. (2002): Allied Geomorphology, B. R. Publishing Corporation (India) Ltd., New Delhi.*
 3. *Thornbury, W. D. (1984): Principles of Geomorphology, Wiley Eastern Limited, New Delhi.*
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Semester – IV
Core Course: Paper - IX
Population Geography (Theory)

TOTAL MARKS – 100
(Theory – 70, Practical-30)

Unit – I

- Definition, nature and subject matter.
- Recent developments.
- Relation with other Social sciences.
- Sources of population data.
- Population Geography in India.

Unit – II

- Measures of population distribution and concentration.
- Factors affecting population distribution and density.
- Pattern of world distribution, growth and density of population.
- Pattern of distribution, growth, density of population in India, 2011.

Unit – III

- Determinants and measures of fertility, morbidity, mortality and migration.
- Concepts of over-population, under-population, optimum population and ageing.
- Theories of population growth and migration – Marx, Ravenstine and Lee.

Unit – IV

- Population – Resource regions after Zelinsky.
- Population related problems of the Third World: poverty, famine, nutrition and unemployment.
- Fertility influencing policies: Pro-natal and Anti-natal (Sweden and India).
- Migration influencing policies in India and USA; Concept of brain drain.

Internal Assessment – 10 marks

Suggested Readings:

1. Chandana, R. C. (2000): *Geography of Population: Concept, Determinants and Patterns*, Kalyani Publishers, New Delhi.
2. Clark, J. I. (1973): *Population Geography*, Pergamon Press, Oxford.
3. Mitra, A. (1978): *India's Population, Vol. I & II*, Abhinav Publisher, Nagpur.
4. Hassan, M. I. (2005): *Population Geography*, Rawat Publication, New Delhi.
5. Zelinsky, W. (1966): *A Prologue to Population Geography*, Prentice Hall, New Jersey.

**Practical
Core Course – Paper - IX**

Total Marks – 30

- Population projection by arithmetic method.
- Measures of fertility and mortality: Crude Birth Rate (CBR), Gross Reproduction Rate (GRR), Total Fertility Rate; Crude Death Rate (CDR), Infant and Child Mortality Rate (IMR and CMR), Maternal Mortality Rate (MMR).
- Sex ratio, work participation rate.
- Mean centre of population and its shift over time.

Internal Assessment – 10 marks

Suggested Readings:

1. Chandana, R. C. (2000): *Geography of Population: Concept, Determinants and Patterns*, Kalyani Publishers, New Delhi.
 2. Saha, P. and Basu, P. (2013): *Advanced Practical Geography*, Books and Allied Ltd.
 3. Monkhouse, F. J. (1971): *Maps and Diagrams*, Methuen, London.
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Semester – IV
Core Course - Paper - X
Research Methodology (Theory)

TOTAL MARKS – 100
(Theory – 70, Practical-30)

Unit – I

- Meaning, objectives, types and significance of research
- Research method
- Research technique
- Criteria of good research
- Research problem
- Selection of research problem

Unit – II

- Meaning and necessity of research design
- Features of good research design
- Different research design
- Census and sample survey
- Steps in sample design
- Characteristics of a good sample design

Unit – III

- Methods of data collection – observation, interview, questionnaire and schedule method of primary data collection
- Collection of secondary data
- Processing of data
- Elements and types of data analysis

Unit – IV

- Significance of report writing
- Different steps of writing report
- Layout of the research report
- Types of report
- Precautions for writing reports

Internal Assessment – 10 marks

Suggested Readings:

1. Kothari, C. R. (2008): *Research Methodology: Methods and Techniques*, New Age International Publishers, New Delhi.
 2. Pathak, A. (2012): *Research Methodology in Geography*, Maxford Books, New Delhi.
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**Practical
Core Course – Paper - X**

Total Marks – 30

- Field Report based on physical and socio-economic survey

(Page limit: within 30 pages inclusive of text, maps, diagrams, photographs, appendix and bibliography)

Internal Assessment – 10 marks

Suggested Readings:

1. Kothari, C. R. (2008): *Research Methodology: Methods and Techniques*, New Age International Publishers, New Delhi.
 2. Pathak, A. (2012): *Research Methodology in Geography*, Maxford Books, New Delhi.
 3. Mahmood, A. (2008): *Statistical Methods in Geographical Studies*, Rajesh Publications, New Delhi.
 4. Das, N. G. (2009): *Statistical Methods*, Tata McGraw Hill Education Pvt. Ltd. New Delhi.
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