

Choice Based Credit System (CBCS)

**OSMANIA UNIVERSITY
DEPARTMENT OF GEOGRAPHY**

**UNDERGRADUATE PROGRAMME
(Courses effective from Academic Year 2019-20)**



SYLLABUS OF COURSES TO BE OFFERED

Department of Geography

Osmania University

B.A. / B.Sc. CBCS Common Core Syllabi for All Universities in Telangana (w.e.f 2019-2020)

SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.A./B.Sc. PROGRAMME IN GEOGRAPHY

FIRST YEAR / SEMESTER -I

Code	Course Title	Course Type	HPW	Credits
BS101	Elements of Geomorphology	DSC-1A	4T	4
BS102	Practical-I: Elements of Mapping and Interpretation		3P	1
			07	5

SEMESTER-II

Code	Course Title	Course Type	HPW	Credits
BS201	Elements of Climatology & Oceanography	DSC-1B	4T	4
BS202	Practical-II: Basic Statistics and weather Map		3P	1
			07	5

SECOND YEAR / SEMESTER-III

Code	Course Title	Course Type	HPW	Credits
BS301	Human Geography	DSC-1C	4T	4
BS302	Practical-III: Maps and Diagrams		3P	1
BS303	Travel And Tourism	SEC-1	2	2
BS304	Surveying Techniques and Cartography	SEC-2	2	2
			11	9

SEMESTER-IV

Code	Course Title	Course Type	HPW	Credits
BS401	Economic Geography	DSC-1D	4T	4
BS402	Practical-IV: Map Projections		3P	1
BS403	Remote Sensing and GPS	SEC-3	2	2
BS404	Fundamentals of GIS	SEC-4	2	2
			11	9

B.A./B.Sc (Programme) Geography, Osmnia University

Discipline Specific Core (DSC) Course (4 Compulsory Papers)

Semester I

1. **Elements of Geomorphology** (4 Credits)
Elements of Mapping and Interpretation (practical) (1 Credit)

Semester II

2. **Elements of Climatology & Oceanography** (4 Credits)
Basic Statistics and Weather Map (practical) (1 Credit)

Semester III

3. **Human Geography** (4 Credits)
Maps and Diagrams (practical) (1 Credit)

Semester IV

4. **Economic Geography** (4 Credits)
Map projections (practical) (1 Credit)

Skill Enhancement Course (SEC)

Semester III : Travel And Tourism (2 Credits)

Semester III : Surveying Techniques and Cartography (2 Credits)

Semester IV : Remote Sensing and GPS (2 Credits)

Semester IV : GIS based Project Report (2 Credits)

B.A. / B.Sc. GEOGRAPHY FIRST YEAR

SEMESTER -I

(BS101) Paper I: ELEMENTS OF GEOMORPHOLOGY(4 Credits)

Unit-1:

1. Land and Sea: Formation and distribution.
2. Theories: Isostasy, Continental Drift, Plate Tectonics.

Unit-2:

3. Interior of Earth: Earthquakes, Volcanoes Rocks.
4. Denudation – Erosion, Weathering and Mass-wasting.

Unit-3:

5. Fluvial landforms – Erosion and depositional
6. Aeolian landforms- Erosion and depositional

Unit-4:

7. Karst Topography- Erosion and Depositional landforms
8. Glacial Topography- Erosion and Depositional landforms

Basic Texts:

1. Critchfield (1997): General Climatology, Prentice Hall of India, New Delhi.
2. Strahler A. H. and Strahler A. N. (1971): Physical Geography, Willey eastern, New Delhi.
3. Trewartha (1968): An Introduction to Climate, Mc Graw Hill, New Delhi.

Additional Texts:

1. Tikka R. N. (1999): Physical Geography, Kedarnath&Ramnath& Co., Meerut.
2. Dasgupta and Kapoor (1998): Physical Geography, Chand & Co., Delhi.
3. Lal, D. S. (1996): Climatology, Chaitanya Publishing House, Allahabad.
4. Savinder Singh (2013): Geomorphology, PrayagPustakBhavan, Allahabad.
5. Sparks B. W. (1965): Geomorphology, Brill Academic Publishers.

(BS102) Practical-I: ELEMENTS OF MAPPING AND INTERPRETATION

(1 Credit)

1. Types of Maps: Cadastral, Topographical, Atlas, General Maps, Thematic Maps.
2. Construction of scale: simple, diagonal and comparative.
3. Relief features of geological landforms and profile drawing : serial, superimposed, projected and composite.
4. Interpretation of toposheet.

Basic Texts

1. Monkhouse F. J. and Wilkinson H. R. (1968): Maps and Diagrams, Methuen, London.
2. Mishra R. P. and Ramesh A. (1999): Fundamentals of Cartography, Mac Millan, New Delhi.

Additional Texts

1. Gopal Singh (1996): Map Work and Practical Geography, Vikas Publishing House, New Delhi.
2. Singh R. L. and Dutt P.K. (1968): Elements of Practical Geography, Students Friends, Allahabad.
3. Negi B. S. (1998): Practical Geography, Kedarnath and Ramnath, Meerut.

SEMESTER -II

(BS201) Paper II: ELEMENTS OF CLIMATOLOGY & OCEANOGRAPHY

(4 Credits)

Unit-I:

1. Atmosphere – Structure and Composition.
2. Insolation – Factors influencing the incidence and distribution.
3. Temperature – Horizontal and Vertical Distribution.
4. Pressure – Influencing factors- High and Low Pressure Areas, Global Pressure Belts.

Unit-II:

5. Winds – Local, Periodic and Planetary.
6. Cyclones – Formation, Distribution and Impacts, Tropical and Temperate.
7. Humidity – Absolute and Relative.
8. Clouds – Types, Formation and Potentials Precipitation, Types, Formation and Distribution.

Unit-III:

9. Submarine relief: Continental Shelf, Continental Slope, Abyssal Plain, Ocean Deep and Trenches, Mid-Oceanic ridges.
10. Temperature: Horizontal and Vertical Distribution.
11. Salinity: Factors and Distribution.

Unit-IV:

12. Waves & Tides: Types and Formation.
13. Ocean Currents: Types and Factors Responsible - Currents of Atlantic, Pacific and Indian Oceans.
14. Ocean deposits: Types and Distribution.
15. Marine Resources and their economic significance.

Basic Texts:

1. Cole and King (1975): Oceanography for Geographers, E. Arnold, London.
2. Ken Briggs (1985): Physical Geography: Process and System, Holder and Stoughton, London.
3. Rice R. J. (1996): Fundamentals of Geography Addison - Wesley.
4. Sharma, R. C. and Vatal M. (1997): Oceanography for Geographers, Chaitanya Publishing House, Allahabad.

(BS202) Practical-II: Basic Statistics and Weather Map (1 Credit)

1. Sources of data: Classification and Tabulation of data.
2. Central Tendencies – Mean, Median and Mode
3. Measures of Dispersion - Mean Deviation and Standard deviation
4. Correlation-Karl Pearson and Spearman.
5. Weather Map: Weather symbols and Interpretation of Indian daily weather maps (July, October and January).

REFERENCES:

1. Aslam Mohmood: Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi.
2. Singh, L.R. (2006): Practical Geography, SharadaPustakBhavan.
3. Gregory, S (1963): Statistical Methods and the Geographer, Longmans, London
4. King, L.J.: Statistical Analysis in Geography, Prentice Hall, Englewood Cliffs, New Jersey.
5. Zamir, A. (2002): Statistical Geography: Methods and Applications, Rawat Publications, Jaipur.
6. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
7. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.