

Department of Geography
Osmania University

B.A. / B.Sc. CBCS Common Core Syllabi for All Universities in Telangana
(w.e.f 2016-17)

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
BS104	Elements of Geomorphology	DSC-1A	4T	4
	Practical-I: Elements of Mapping and Interpretation		2P	1
			06	5

SEMESTER-II

Code	Course Title	Course Type	HPW	Credits
BS204	Elements of Climatology & Oceanography	DSC-1B	4T	4
	Practical-II: Basic Statistics and weather Map		2P	1
			06	5

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

Discipline Specific Core (DSC) Course (6 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)

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

SEMESTER -I

(BS104) Paper I: ELEMENTS OF GEOMORPHOLOGY (4 Credits)

Unit-1: Earth Dynamics

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

Unit-2: Earth Dynamics

3. Interior of Earth Earthquakes Volcanoes Rocks.
4. Weathering and Mass-wasting.

Unit-3: Geomorphology - Processes and Landform Development.

5. River: Flow and Work- erosion, transportation, deposition – landforms.
6. Wind: Air flow and Work- erosion, transportation, deposition- landforms - desert formations.
7. Marine : Waves and Currents and Work- erosion, transportation, deposition - shoreline and landforms.

Unit-4: Geomorphology

8. Karst: Flow of Underground water and Work- solutions- erosion and deposition - landforms.
9. Glacial: Types, Movements and Work- erosion, transportation and deposition- 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, Prayag Pustak Bhavan, Allahabad.
5. Sparks B. W. (1965): Geomorphology, Brill Academic Publishers.

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. Map reading and Interpretation of topographical sheets.

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

(BS204) 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; El Niño and La Niña.
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.

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, Sharada Pustak Bhavan.
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.