

SYLLABUS & PROGRAMME STRUCTURE

Geography

(Honours)

(Choice Based Credit System)

(Effective from the Academic Session 2017-2018)

First 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-II
Core Course –Paper- III
Climatology (Theory)

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

Unit : 1

- Composition and Structure of Atmosphere.
- Insolation and Heat budget
- Temperature heating and cooling of atmosphere, Controls of temperature, Temperature inversion, Vertical and horizontal distribution of temperature, Range of temperature :diurnal, seasonal and annual.

Unit : 2

- Atmospheric pressure and winds : Vertical and horizontal distribution of pressure and winds, pressure belts, pressure gradient and air circulation.
- Factors affecting the wind motion, planetary, periodic and local winds, General circulation of winds.
- Jet stream and surface weather.

Unit : 3

- Atmospheric moisture- Hydrological cycle, evaporation factors, Humidity and temperature, condensation, stability and instability, Fog, Clouds, Precipitation : processes, types,
- Climatic region after Koppen and Thornthwaite.

Unit : 4

- Atmospheric disturbances: Cyclones and anticyclones, Tropical and extra tropical cyclones, Thunderstorms.
- Monsoon : Origin , concept and mechanism.

Internal assessment – 10

References :

1. Barry and Chorley,1998 : Atmosphere, Weather and Climate, ELBS
2. Menon , P.A. (1989) : Our weather, NBT, India.
3. Critchfield , H.J.(1990) : General Climatology, Printice Hall of India Pvt LTD, N.D.
4. Lal, D.S. (Latest edition) : Climatology, Sharada Pustak Bhawan, Allahabad.
5. Singh Savindra,; Physical Geography, Prayag Pustak Bhawan, Allahabad.

Practical

- Climatological instrument reading : 5
 - I. Sis's maximum and minimum thermometer.
 - II. Fortein's Barometer.
 - III. Dry and Wet bulb thermometer.

- Climograph (after G. Taylor) and Hythergraph. 5
- Study and weather map interpretation : . 5
 - I. Summer case (June - September)
 - II. Winter case (December – January)

- Laboratory note book and viva voce. 5

Internal assessment -10

Semester-II
Core Course – Paper- IV
Economic Geography (Theory)

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

Unit : 1.

- Definition, Concept of Economic Geography, Classification of Economic activity, Factors affecting location of Economic activity with special reference to agriculture(Von Thunen Theory), Industry (Weber's Theory).

Unit : 2.

- Primary activities:
 - a) Subsistence agriculture
 - b) Commercial agriculture
 - c) Plantation agriculture
- Forestry – Lumbering – Tropical and Temperate.
- Fishing – Temperate and Tropical fishing ground
- Mining

Unit: 3.

- Secondary activities
- Manufacturing – Iron and steel, Aluminum, Cotton Textile, Petroleum refining, Paper. Concept of manufacturing regions, Special economic zones and Technology parks.

Unit: 4.

- Tertiary activities- Transport and Trade.: Major transport system of the world- Trans Siberian Railway, Canadian Pacific Railway, Panama Canal Route, Suez Canal Route.
- Concept of world trade organization (WTO), Multinational Corporation (MNC) and International Trade.
- International Trade system of India.

References:

1. Jones, C.F. and Darkenwald, G.G. (1954)- Economic Geography, Mc Milan, New York.
2. Smith, D.N.(1971)- Industrial Location- An Economical Geographical Analysis, John Wiley, New York.
3. Morgan, W.B. and Munton , R.J.C.(1971): Agricultural Geography, Methuen, London.
4. Leong,G.C. and Morgan, G.C. (2000), Human and Economic Geography, Oxford University Press, New Delhi, Kolkata.

5. Roy, Prithwish, Economic Geography ,(Latest Edition), New Central Book Agency (P) Ltd. Kolkata
6. Hartshorn, T.A. Alexander, J.W, Economic Geography (Latest Edition), Printice Hall of India Pvt. Ltd.
7. Chattaraj , Guha (Latest Edition), Economic Resources, John Wiley publication, New Delhi, Kolkata.

Practical

Statistical Techniques

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- Use of data in Geography , Significance of statistical methods in geography, Sources of data, Tabulation, Classification of statistical data.
- Diagrammatic representation of frequency distribution:
 - a) Histogram
 - b) Frequency polygon
 - c) Ogive(Cumulative frequency curve)
- Measures of central tendency : calculation and diagrammatic representation – mean, median, mode.
- Measures of partition values : calculation and diagrammatic representation - Quartiles, Deciles, Percentiles.
- Measures of dispersion or variation :
 - a) Mean deviation,
 - b) Standard deviation
 - c) Scatter diagram and drawing of regression line with eye estimation.
- Laboratory note book and viva voce 5
- Internal assessment 10

References:

1. Das, N.G.(2008), Statistical Methods, Mc Graw Hills Education (India) PVT. LTD.
2. Alvi, Z (1995): Statistical Geography – Methods and Application , Rawat publication , Jaipur.