

**GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
SYLLABUS**

**SECOND YEAR B.A. /B.Sc. SEMESTER – III
PAPER - 3 : PHYSICAL GEOGRAPHY-II**

CLIMATOLOGY AND OCEANOGRAPHY

Unit-I

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Horizontal and vertical distribution of temperature, inversion of temperature.

Unit-II

1. Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon and Local winds.

Unit-III

1. Humidity- measurement and variables, evaporation, condensation, precipitation forms and types and distribution. Climate classification by Koppen

Unit-IV

1. Configuration of oceanic floors, Temperature and Salinity of ocean.

Unit-V

1. ocean currents
2. Tides, waves of oceans oceanic resources.

Suggested Readings:

1. Barry, RG and Chorley R.J., Atmosphere, Weather and Climate, Routledge, 1998.
2. Critchfield, H., General Climatology, Prentice-Hall of India, 2002.
3. King, C. Oceanography for Geographers, Edward Arnold, London, 1975.
4. Trewartha, GT: An Introduction to Climate, Mc-Graw Hill, New York, 1981.
5. Trewartha, G.T., The Earth's Problems Climates, University of Wisconsin Press, USA.

ADDITIONAL TEXT BOOKS:

1. Ghosh .B.N.(1995) Fundamentals of Population Geography- Sterling publishers- BANGALORE.
2. Bhende A.A. and Kanitkar. T (2006) Principles of Population studies. Himalaya publishing House . HYDERABAD.

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
PRACTICAL SYLLABUS
SECOND YEAR B.A. /B.Sc. SEMESTER – III

PRACTICAL PAPER - 3: Representation of Climatic Data

1. Collection of Climatic data.
2. Representation of temperature and rainfall.
 - (i) Line and Bar Graph – 1 Exercise.
 - (ii) Distribution of temperature (180–isotherms) – 1
 - (iii) Distribution of rainfall (180 isohyets) – 1
 - (iv) Hythergraph - 1
3. Climograph (wet and dry places) - 2 Exercise.
4. Weather map symbols and Interpretation (January & July) - 2

Suggested Readings:

1. Singh, R.L., 1979. Elements of Practical Geography, Kalyani Publisher, New Delhi.
2. Gregory S. 1963. Statistical Methods and the Geography, Longman, London.
3. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
4. Lawrence, G.P. 1968. Cartographic Methods, Methuen, London,.
5. Monkhouse, F.J. and Wilkinson, H.R. 1994. Maps and Diagrams, Methuen, London,
6. Pal. S.K. 1998: Statistics for Geoscientist- Techniques and Applications, Concept Publication, New Delhi,.
7. Sarkar, A.K 1997: Practical Geography-A Systematic Approach, Orient Longman, Calcutta.