

SRI VENKATESWARA UNIVERSITY :: TIRUPATI

**FIRST YEAR B.A. / B.Sc. GEOGRAPHY
FIRST SEMESTER
Revised Syllabus Under CBCS W.E.F. 2020-21**

Course –I : PHYSICAL GEOGRAPHY

4 Hours /

week 60 Hours

Objectives

To learn about 1) Definition, Nature and Scope of Physical Geography Types of rocks, Earth Movements, Volcanoes and Earth quack. Continental Drift and Plate tectonic Theories 2) Weathering and mass-movement, erosion process, Wind ,River and Glacier action 3) Weather and Climate, Origin and composition of Atmosphere, distribution of temperature, pressure and winds 4) Types of precipitation, Climate classification 5) Land and water distribution, Tides, waves and ocean currents.

Unit-I

Definition, Nature and scope of Physical Geography, Classification of rocks. Earth Movements: Orogenic, Epirogenic, Earth quakes and Volcanoes .Wegner’s theory of continental drift and plate tectonic theory.

Unit-II

Weathering: causes and its types. Mass – movements; Meaning and concept and Factors, types and impacts. Concept of cycle of erosion; cycle of erosion by W.M. Davis. Land forms of River, Wind and Sea waves.

Unit-III

Weather and Climate : Origin ,Composition and Structure of Atmosphere. Isolation, Horizontal and vertical distribution of temperature, Inversion of temperature. Atmospheric pressure- measurement and distribution, pressure belts. Winds: classification of winds, Monsoons and Local winds

Unit-IV

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

Unit-

V Land and water Distribution, Configuration of ocean floors, Temperature and Salinity of ocean: Factors and distribution. Tides, waves and Ocean currents: Pacific and Indian ocean Currents.

Learning Outcomes

After completion of the paper student will learn 1) Definition, Nature and scope of Physical Geography Types of rocks, Earth Movements, Volcanoes and Earth quack. Continental Drift and Plate tectonic Theories 2) Weathering and mass-movement, erosion process, wind, river and glacier action 3) Weather and Climate, Origin and composition of Atmosphere, distribution of temperature, pressure and winds 4) Types of precipitation, Climate classification 5) Land and water distribution, Tides, waves and ocean currents.

Co-curricular activities : Preparation of charts on classification of rocks ,collection of rocks, volcanic action, earth quakes models with tharmocol ,Preparation of notes, webinars and seminars, Geographical field visits.

Suggested Readings :

1. Arma H.S.Perspective in Geomorphology, Concept, New Delhi 1980.
2. Barry, RG and Chorley R.J., Atmosphere, Weather and Climate, Routledge, 1998
3. Critchfield, H., General Climatology, Prenticc-Hall of India, 2002.
4. R.C.Sharma and M vatal. Oceanography for Geographers, C.S.J for Chaitanya Publishting house, Allahabad, 1975.
5. ST.Jayaraju and T.Rajendra Kumar bhouthika bhugolasasthram, Telugu Akademi, Hydra bad (2010).
6. Singh Savinder, Geomorphology, Prayag Publication, Allahabad 1998.
7. Singh Savinder, Physical Geography Prayag Publication, Allahabad, 1998.
8. Sparks B.W. Geomorphology, Jojngman, London, 1960.
9. Thornbury W.D. 1969 principles of Geomorphology, New York, John Wiley & Sons.
10. Trewartha, GT: An Introduction to Climate, Mc-Graw Hill, New York, 1981.
11. Hema Malini B, Nageswara Rao and Krishna kumari , Physical Geography, Telugu Akademi, Hyderabad.

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Practical- I: STUDY OF WEATHER AND CLIMATE

Objectives:

2 Hours/ week

30 Hours

To learn about the weather and climate, measuring of weather conditions using weather instruments Distribution of temperature and rain fall data. Interpretation of weather reports and Weather Forecasting.

UNIT I: Weather Reports – Definitions of weather and climate, and its Applications

UNIT II: Use of Weather Instruments- Wet & Dry Bulb Thermometer, Barometer Rain Gauge.

UNIT III: Study on Distribution of temperature and Rainfall data- In Maps.

UNIT IV: Study of Weather Symbols and Interpretation of Indian Daily Weather Reports of January & July, Weather Forecasting.

Learning Outcome

After completion of the paper the student will learn about the weather and climate, measuring of weather conditions using weather instruments Distribution of temperature and rain fall data.

Suggested Readings:

1. Khan, A.A.(1996) Text book of Practical Geography, concept, New Delhi.
2. Lawrence, G.P.1968. Cartographic Methods, Methuen, London.
3. Monkhouse, F.J., & Wilkinson, H.R., 1994, Maps & Diagrams, Methuen, London.
4. Singh, R.L.,1979, Elements of Practical Geography , Kalyani publishers, New Delhi.

SRI VENKATESWARA UNIVERSITY
B.A./ B.Sc DEGREE COURSE IN GEOGRAPHY
SEMESTER SYSTEM
(Effective from the Academic Year 2020-2021)

I Semester: PHYSICAL GEOGRAPHY

MODEL QUESTION PAPER

Time: 3 Hrs

Marks: 75

Part-A

Answer any five of the following
questions

Each Questions Carries 5 Marks

5X5=25

1. Physical Geography.

2. Sedimentary rocks.

3. Physical Weathering.

4. Sand Dunes.

5. Ozone Layer.

6. Local winds.

7. Condensation.

8. Tides and Waves.

Answer ALL the questions with internal choice

Each Questions Carries 10 Marks 5X10=50 Marks

9. a). Describe the nature and scope of physical geography.

(Or)

b). Examine the theory of Alfred Wegner.

10. a). Give an account of the concept of cycle of erosion.

(Or)

b). Discuss about the land forms of River action.

11. a). Give a brief account of the structure of atmosphere.

(Or)

b). Write about vertical distribution of temperature.

12. a). What are the precipitation forms? Discuss about conventional rainfall.

(Or)

b). A brief account on Koeppen's classification of climate.

13. a). Give an account of the distribution of land and water

(Or)

b). what are the factors influence in salinity of the Ocean.

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Paper: **Study of Weather and Climate**

(Practical Examination)

MODEL QUESTION PAPER

Time: 3 Hours

Maximum Marks: 50

Answer all the questions

(All questions carry equal marks)

4x10=40

Marks

1. Differences in between Weather and Climate. Explain?
2. Draw the Rain gauge diagram with parts and explain its uses.
3. Describe about the temperature and show the distribution of temperature with the help of isotherms in the given map.
4. Interpretation of Indian Daily Weather report of August month with Weather forecasting.
5. Record and Viva-voce. 10x1=10Marks