

**UNIVERSITY OF PUNE**  
**F.Y.B.A.**  
**PHISICAL GEOGRAPHY Gg-110 (G-1)**  
**Revised Syllabus (from June, 2008)**

**Objectives:**

1. To introduce the students to the basic concepts in Physical Geography.
2. To acquaint the students with the utility and application of Physical Geography in different areas and environment.
3. To make the students aware of the need of protection and conservation of different landforms.

| <b>Section I</b> |                                    |   |                      |
|------------------|------------------------------------|---|----------------------|
| <b>Unit No.</b>  | <b>Unit</b>                        | <b>Sub Unit</b>   | <b>No.of periods</b> |
| 1                | Introduction of Physical Geography | a. Meaning, Nature & Scope.<br>b. Importance of Physical Geography.<br>c. Earth Measurements, Size and Shape, Radius, Circumference, Latitude and Parallels, Longitudes & Meridians, Concept of Local Time, & Standard Time, Time Zone & International Date Line. | 07                   |
| 2                | Lithosphere                        | The earth – its Interior, Composition & Structure (Recent Views)<br>i. Wegner’s Continental Drift Theory<br>ii. Theory of Plate Tectonics   | 03<br>05             |
| 3                | Diastrophic Movements              | a. Meaning of Folding and Faulting<br>b. Volcanism and Earthquake, Causes & Distribution of Earthquakes in India  | 04<br>05             |
| 4                | Rocks                              | a. Classification of rocks on the basis of origin.<br>Properties of different rocks.  | 03                   |

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| 5                 | Weathering & Soils                     | a. Meaning & Types of Weathering,<br>b. Meaning of Soil, Soil Formation and Soil Profiles.   | 03             |
| 6.                | Agents of Erosion and Deposition       | a. Landforms of River Erosion and Deposition.<br>b. Landforms created by Sea-waves.<br>c. Landforms created by Wind.   | 04<br>03<br>03 |
| <b>Section II</b> |  |  |                |
| 7.                | Atmosphere                             | a. Meaning, Composition & Structure of Atmosphere<br>b. Nature and Importance of Ozone Layer   | 03<br>02       |
| 8.                | Isolation                              | a. Heat budget of earth & Global warming<br>b. Horizontal distribution of temperature<br>c. Vertical distribution of temperature (Lapse rate & Inversion of temperature) | 02<br>02<br>02 |
| 9.                | Atmospheric Pressure & Wind System     | a. Formation of Pressure Belts and their relation with winds, Isobaric slopes, Coriolis forces, Ferrel's law.<br>b. Monsoon Winds & Associated Weather                   | 03<br>02       |
| 10.               | Atmospheric Moisture and Precipitation | a. Humidity and its types : absolute, specific and relative humidity<br>b. Forms of condensation & Types of precipitation  | 02<br>04       |
| 11.               | Air Masses & Fronts                    | a. Formation & types of air masses and fronts.<br>b. Tropical cyclones : Causes and Distribution   | 04             |
| 12.               | Submarine relief of ocean              | a. General idea of Submarine relief  | 02             |
| 13.               | Properties & Movement of ocean water   | a. Factors affecting salinity and Distribution of salinity<br>b. Tides: Its types - Tsunami  | 04<br>02       |
| 14.               | Applied Physical Geography             | Concept & Methods of water conservation.<br>A Case Study of Johad (Rajasthan)/ Ralegan Siddhi/ Hiware Bazar (Ahmednagar, Maharashtra)                                    | 06             |

### Reference Books:

- 1 Physical Geography, A.N. Strahler
- 2 Morphology and Landscape, H. Robinson
- 3 General Climatology, H. J. Critchfield
- 4 The Face of Earth, Penguins 1980, Dury G. H.,
- 5 Elements of Geomorphology, Oxford University Press, Calculatta 2001, Kale V. & Gupta A.
- 6 Geomorphology, Prayag Pustakalay, Alahabad, 1988, Singh S
- 7 Atmosphere, Weather and Climate, Routledge 1998, Barry R.G. & Chorley R. J.
- 8 Climatology, MC Graw, Hill, New York 1974, Mather J. R.
- 9 Foundation of Climatology, Surjeet Publications, Delhi 1982 Stringer E.T.
- 10 An Introduction to Climate, International Students edition Mc Graw Hill, New York 1980.
- 11 General Oceanography, An introduction John Wiley & Sons, New York 1980, Graid S.
- 12 Prakrukik Bhuvigyan, Arvind Bhagwat, Shrikant Karlekar
- 13 Sugam Prakrutik Bhuvigyan, Prof. Suresh Date, Mrs. Date
- 14 Prakritik Bhugol, Part 1 & 2, W. R. Ahirrao, T. M. Varat, S. S. Alizad
- १५ हिरवे बाजारची यशोगाथा, सुरेशचंद्र वरघडे, प्रफुल्लता प्रकाशन, पुणे
- १६ जोहड : सौ. सुरेखा शहा, सुमेरु प्रकाशन, डोंबिवली
- १७ कायाकल्प : मा. अण्णा हजारे