

SEMESTER II**Geog. 102 Introduction to Physical Geography I Cr. Hours:03**
BS Geography 4 Years Programme, University of the Punjab, Lahore

- **Introduction to Physical Geography**
 - Scope and Branches of Physical Geography
 - Relationship with other branches of knowledge
- **The Earth and its Origin**
 - The Solar system and the Earth
 - Theories about the Earth's Origin, shape and size, rotation and revolution, composition and structure, distribution of land and water
- **Lithosphere**
 - Internal Structure of the Earth
 - Rocks –Their Origin, Formation and Types
 - Plate Tectonics
 - Mountain Building
 - Geomorphic Processes
 - Earthquakes
 - Volcanic activity
 - Weathering, Erosion and Deposition
 - Landforms produced by Surface Water, Ground Water, Wind and Glaciers
- **Atmosphere**
 - Composition and Structure of Atmosphere
 - Atmospheric Temperature
 - Air pressure and Winds
 - Air masses and Fronts (classification, distribution and associated weather)
 - Cyclones and Weather Disturbances.
 - Hydrological Cycle
 - Atmospheric Moisture and Precipitation
 - Climatic Classification: Koppen's classification
 - Atmospheric Pollution.
- **Hydrosphere**
 - Configuration of Ocean floor
 - Ocean Deposits

- Composition, Temperature, and Salinity of Ocean Water,
- Movements of the Ocean Water: Waves, Currents and Tides.
- **Biosphere**
 - Forest Biomes
 - Major forest types

Books Recommended:

1. Christopherson, R.W. (2000). Geo-systems, USA, Prentice-Hall, Inc.
2. De Blij, H. J and Muller, P.O. (1996). Physical Geography of the global Environment, USA, John Wiley and Sons Inc.
3. Diwan A.P. & D.K. Arora (1995) "Origin of the Ocean" Anmol Publisher, Delhi.
4. Gabler, R.E., Sager, R.J. & Wise, D.L (1997) Essentials of Physical Geography, New York, 4th Edition. Saunders College Publishing.
5. King, CAM (1980) Physical Geography, Oxford, Basil Blackwell.
6. Kendrew (1961): Climates of the continents. Longman London/New York.
7. Miller, G.T (1996) Living in the Environment, Principles, Connections and Solutions, 9th Edition, Wadsworth.
8. Miller, E.W. (1985) Physical Geography, Columbus, Charles E. Merrill
9. Monkhouse, F.J. (1996). Principles of Physical Geography, London Hodder & Stoughton.
10. Mcuveen (1992) "Fundamentals of Weather and climate" Prentice Hall New Jersey.
11. Strahler, A.N. (2004) Modern Physical Geography. New York, John Wiley & Sons.
12. Scott, R.C. (1996) Introduction to Physical Geography, New York, West Publishing Co.
13. Small, R. J. (1989), Geomorphology and Hydrology, London, Longman.
14. Thurman, H.V. & Mexrill (1996) "Essentials of Oceanography" Menson, London.
15. Taylor, J. (1993) Integral Physical Geography, London Longman
16. Thompson, R.D. et. al (1986). Process in Physical Geography, London, Longman.
17. Thornbury, W.D. (1969) "Principles of Geomorphology" John Willy & Sons. New York.