

9. Environmental Geography

Course Objectives:

1. Various dimensions of environment and natural resource management.
2. Detailed analysis of concept, structure and functions.
3. Understanding of the concept of appraisal and conservation of Environment and Natural Resources.

Learning Outcome:

1. Detailed exposure of human – environment relationship.
2. In-depth knowledge of environmental issues in tropical, temperate and polar ecosystems.
3. Understanding the environmental programmes and policies at local as well as global level.

Course Content:

1. Introduction to Natural Resource and Environment: Basic Concept; Human-Environment Relationships- Resource Use and abuse, Concept of resource curse
2. Ecosystem: Concept, Structure and Functions; Ecosystem services and ecological footprints.
3. Natural Resource: Concept (Zimmermann), Classification, Utilization, Problems and Management of Land, Water, forest and energy resources.
4. Environmental Issues in Tropical, Temperate and Polar Ecosystems. Global environmental issues: Impacts on land, soil, water, climate and atmosphere, biodiversity loss; and human health
5. Appraisal and Conservation of Environment and Natural Resources and Sustainable Resource Development, Environmental Programmes and Policies – Global, National and Local levels. Management of Environment and Resources: Principle of conservation, restoration and sustainable alternatives; Importance of EIA.

References:

Essential:

1. Chandna, R. C. (2002). *Environmental Geography*. Ludhiana, India: Kalyani.
2. Cunningham, W. P. and Cunningham, M. A. (2004). *Principals of Environmental Science: Inquiry and Applications*. Delhi: Tata Macgraw Hill.
3. Odum, E. P. et al. (2005). *Fundamentals of Ecolog*. India: Ceneage Learning
4. Singh, R.B., and Hietala, R. (Eds.) (2014). *Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies*. USA: Springer

5. Singh, Savindra.,(2001). *Paryavaran Bhugol (Hindi)*,Allahabad, India: Prayag Pustak Bhawan.
6. Singh,R.B., Prokop, Pawel (Eds.) (2016). *Environmental Geography of South Asia*.Tokyo, Japan: Springer.

Suggestive:

- 1 Goudie, A. (2001). *The Nature of the Environment*, Oxford, UK: Blackwell.
- 2 Holechek, J. L. C., Richard, A., Fisher, J. T. and Valdez, R. (2003). *Natural Resources: Ecology, Economics and Policy*. New Jersey, USA: Prentice Hall.
- 3 Mitchell, B. (1997). *Resource and Environmental Management*. England: Longman Harlow.
- 4 Saxena, H.M. (2012). *Environmental Studies*. Jaipur, India: Rawat Publications.

Teaching Learning Plan

Week 1: Unit I

Week 2: Unit I

Week 3: Unit II

Week 4: Unit II

Week 5: Unit III

Week 6: Mid-Semester Examinations

Week 7: Mid-Semester Break

Week 8: Unit III

Week 9: Unit IV

Week 10: Unit IV

Week 11: Unit V

Week 12: Unit V