

ENS 502 LAND, WATER AND BIODIVERSITY RESOURCES

(Credits 04)

OBJECTIVE

To familiarize the learners about land, water and biological resources; their extent, importance and cause of degradation; and measures for their conservation and sustainable use

SYLLABUS

Land Resources:	Characteristics; Land use pattern and land utilization; Wetlands; Land cover changes; Land degradation and wastelands; Soil amelioration and conservation of wastelands; Land-related hazards and mitigation; Assessment of land uses
Water Resources:	Forms and status; Characteristics and utilization; Major threats to water resources; Development and conservation of water resources
Biodiversity Resources:	Concept, status, types and importance; Biodiversity measurement; Loss of biodiversity; Conservation and sustainable use of biodiversity

SUGGESTED READINGS

- Environmental Studies: Crisis to Cure*- R. Rajagopalan, Oxford University Press, New Delhi.
- Energy, Environment and Resource Conservation*- J.S. Singh, S.P. Singh and S.R. Gupta, Anamaya Publishers, New Delhi.
- Biodiversity and Global Change*- O.T. Solbrig, H.M. Van Emden and P.G.W.T. Van Oordt (eds.), CAB International, UK and IUBS, Paris, France.
- Biodiversity and Ecosystem Functions*- Ernst-Detlef Schulze and Harold A. Mooney (eds.), Springer-Verlag, Berlin.
- Global Biodiversity Assessment*- V.H. Heywood (Ex ed.), Published for the UNEP by Cambridge University Press, Cambridge.
- Hot Spots of Endemic Plants of India, Nepal and Bhutan*- M.P. Nayar, TBGRI, Tiruvananthapuram.
- Banking on Biodiversity*- P. Shengji (ed.), ICIMOD, Kathmandu, Nepal.
- Wetlands, Biodiversity and The Ramsar Convention*- A.J. Hails (ed.), Ramsar Convention Bureau, Ministry of Environment and Forests (GOI), New Delhi.
- Planning A Wildlife Protected Area Networks in India*- W.A. Rodgers and H.S. Panwar, India: Establishment of Wildlife Institute of India, Dehradun and FO, Rome.
- Conserving Biodiversity Outside Protected Areas*- P. Halday and D.A. Gilmour (eds.), IUCN, Gland, Switzerland.
- Biological Diversity Conservation and the Law*- C.de Klemm and C. Shine, Environmental Policy and Law Paper No. 29, IUCN, Gland, Switzerland.