

Value-Added Course for Undergraduate Course

Environmental Education

VAC/255

Credits: 2

Unit 1 Introduction to Environmental Science and Biodiversity

Scope, importance and multidisciplinary nature of environmental science. Concept, classification, causes for depletion and conservation of natural resources. Basics of biodiversity; hotspot of biodiversity. Causes and effects of biodiversity loss.

Unit 2 Basics of Ecosystems and Environmental Pollution

Concept of an ecosystem; Types, component, structure and function of an ecosystem; Major ecosystems (terrestrial, aquatic, artificial); Ecological succession. Sources and types of pollution; Causes, effects, and control of pollution (air, water, soil, noise). Solid waste management.

Suggested Readings

1. Basu, M. and Xavier, S. 2018. *Fundamental of Environmental Studies*. Cambridge University Press, Kolkata.
2. Vanramliana *et al.*, 2015. *A Text book of Environmental Science*. Scientific Book Centre, Guwahati.
3. Daniel, D. C. 2014. *Environmental Science*. Jones and Bartlett Publishers, London.
4. Prasad, G. 2018. *Handbook of Environmental Science*. Discovery Publishing House, New Delhi
5. Rajagopalan. 2019. *Environmental Studies: From Crisis to Cure*. Oxford University Press, New Delhi.
6. Saha, T.K. 2013. *Ecology and Environmental Biology*. Books & Allied (P) Ltd. Kolkata.
7. Santra, S.C. 2018. *Environmental Science*. New Central Book Agency (P) Ltd., Kolkata.
8. Sharma, P.D. 2017. *Ecology and Environment*. (10th Revised Edition). Rastogi Publication, Meerut.
9. Allaby, M. 2019. *Basics of Environmental Science*, Routledge, London.