

HSCS208 Environmental Science (1-0-0)

Module I:

Multidisciplinary Nature of Environmental Studies; Components of Environment Ecology and Ecosystems: Meaning, Types, Energy Flow Nutrient Flow:

Natural Resources: Renewable and Non-renewable Resources, Environmental Impacts.

Module II:

Biodiversity: Introduction, Types, Effects of Loss of Bio-Diversity. Extinction of Species: Consequences, National efforts towards Biodiversity: Conservation.

Module III:

Pollution: Types, Control Measures, Waste Management.

Disaster Management: Objectives, Types, Preparedness, Mitigation Prevention, Response.

Climate change: Manmade Causes, Green House Effect, Global Warming and its impact, Ozone Layer Depletion and its consequences. Control Measures.

Module IV:

Environment and Development: Social issues, Environmental Ethics, Population Growth and its impact on Environment .Human Rights. Resettlement and Rehabilitation.

Sustainable Development Fundamentals, Sustainable Development in India.

Environmental Protection: Introduction, Government Efforts, Environmental Organizations, Public Awareness, Environmental Education and Training, Green Building, Clean Development Mechanism, carbon Credits.

Environmental Management and Planning: National Green Tribunal, Environmental Impact Assessment: Introduction, EIA Process, Stake holders in EIA Process, EIA 2006. Role of IT in Environment Management and Planning.

TEXT BOOKS:

1. Environmental Studies (Concept, Impacts, Mitigation and management) by M.P.Poonia and S.C. Sharama, 3rd Edition, Khana Book Publishing Co. (P) T Ltd., 2021.
2. Environmental Engineering G.kiely, TMH, 2006.

REFERENCE BOOKS:

1. Environmental Engineering and science by Gilbert M. Masters and Wendell P. Ela, 3rd Edition, PHI Learning, 2008
2. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition, 2009 .