

MANGALORE UNIVERSITY
DEPARTMENT OF BIOSCIENCES

M.Sc. ENVIRONMENTAL SCIENCE

ESS 552 ENVIRONMENTAL CONSERVATION AND MANAGEMENT

39 hrs.

Course Outcomes:

CO1 Know the objectives of conservation.

CO2 Study the role of institutions at local, regional, national and global levels.

CO3 Understand the different methods of conservation.

UNIT I (13 Hours)

Objectives of conservation, concepts of conservation and preservation, development and conservation, conservation of natural resources - air, water, biota. Regional, national and global conservation strategies.

UNIT II (13 Hours)

Methods of conservation: Gene reserves, biosphere reserves, national parks, sanctuaries, national heritage; phytoclimates of Peninsular India, botanical gardens, extinction of species, concepts of threatened, rare, vulnerable and endangered species.

UNIT III (13 Hours)

Biodiversity conservation: Framework for managing biodiversity; priorities for conservation, sustainable use of biodiversity for natural resource management, protecting ecosystems, species, populations and genetic diversity. Capacity building for resources management; Institutions at local, regional, national and global levels.

References:

1. Rajendra Maneria, Environment Conservation and Planning.
2. Khenshoo, T.N., Environment Concerns and Strategies.
3. Tiwari, S.K., 1997. Wildlife Sanctuaries of Madhya Pradesh.
4. Khan, T.I., 2000. Global Biodiversity and Environment Conservations. Pointer Publishers, Jaipur.
5. Bennett, H.H., 2002. Soil Conservation.
6. Deka, M.M., 2002. Joint Forest Management of Water Projects.
7. Gangstad, E.O., 2002. Environment Managements of Water Projects.
8. Maitra, M.K., 2002. Watershed Management; Project, Planning, Development and Implementation.
9. Ural, O., 1980. Soil and Water Conservation