

Course Code : ENCM 11522

Title : Introduction to Environmental Management

Pre-requisite : G.C.E. A/L

Co-requisite : None

Status : Compulsory, Theory

Learning outcomes:

After completion of the course unit, the student will be able to;

- explain the degradation of the natural resources concurrent to the growth of the human population size,
- describe impacts of developmental activities on natural resources,
- explain the need for management and sustainable utilization of natural resources,
- and, explain the environmental management principles.

Course content:

Human population expansion and need for technological advancement, Industrialization and Industrial revolution, Need for expansion, intensification and modernization of technology in agriculture and allied fields in food production, Deforestation, Environmental pollution, Intensification of the use of natural resources.

Impacts on natural resources by anthropogenic activities including aquaculture, agriculture, animal husbandry and other means of food production, Use of agrochemicals, Tourism expansion, Non-rehabilitation of sites of short term economic activities, Economic activities of short term benefits including IUU fishing and ghost fishing, Ornamental fish trade, Extraction of valuable faunal and floral resources with special reference to Sri Lanka, Reduced soil quality due to erosion and Global climatic change, Non-equitable exploitation and consumption of natural resources in different parts of the world.

Depletion of the quality and quantity of non-renewable and renewable natural resources, The need for environmental management, Concept of sustainable utilization and management of natural resources, Environmental management and precautionary principles, Environmental remediation, Restoration, Eco-agriculture.

Method of teaching and learning:

A combination of lectures, computer assisted learning, assignments and group discussions.

Assessment:

In-course assessment and end of semester examination.

Recommended readings:

1. Dash, M. C. (2014). Concepts of Environmental Management for Sustainable Development. 1st edition, I K International Publishing House Pvt. Ltd.
 2. Hyde P. & P. Reeve (2004). Essentials of Environmental Management. 2nd revised edition, IOSH Services Ltd.
 3. NSF (2014). Natural Resources of Sri Lanka: conditions, trends and prospects.
 4. Park, C. (2001). The Environment: Principles and Applications. 2nd edition, Routledge; London.
- Waters, B. (2013). Introduction to Environmental Management. Routledge, London