

Environmental Impact Assessment

Course Code ENE- 802	Credit Hours 3
---------------------------------------	---------------------------------

Course Description

To learn techniques and methods for Environmental Impact Assessment (EIA), including the associated legislation that will enable them to assess the risks and impacts of different industrial and economic activities on environmental systems. They will also learn how to apply and develop models of ecological systems, how to predict potential impacts through modelling, and how to manage natural resources in a sustainable way.

Text Book:

1. Barbara Carroll & Nicholas Pearson, Environmental Impact Assessment Handbook, ASCE, Thomas Telford, 2002
2. ASCE, Environmental Handbook for Building and Civil Engineering Projects – Volume 1: Design and Specification, CIRIA Special Publication 97, Thomas Telford, 1994
3. ASCE, Environmental Handbook for Building and Civil Engineering Projects – Volume 2: Construction Phase, CIRIA Special Publication 98, Thomas Telford, 1994
4. Owen Harrop and Ashley Nixon, Environmental Assessment in Practice, E & FN Spon, 1998

Reference Book:

Prerequisites : NIL

ASSESSMENT SYSTEM FOR THEORY

Quizzes	10%
Assignments	10%
Mid Terms	30%
End Semester Exam	50%

Teaching Plan

Week No	Topics	Learning Outcomes
1-2	National Environmental Policy	choose suitable environmental management systems to solve environmental problems in the real world.
3-4-5	Framework for environmental assessment. Description of the environmental setting	
6-7-8	Prediction and assessment of impacts on the water. Socio-economic environment	
9	Mid Semester Exam	
10	Methods of impact analysis.	Be able to apply a variety of techniques to environmental evaluation, and to make environmental impact assessments and reports
11-12	Practical considerations in writing impact statements	
13-14	Public participation in environmental decision making	
15-16	Future of environmental impact assessment	
17-18	End Semester Exam	