COURSE CODE:	ENS-414		
COURSE NAME:	Environmental Impact Assessment		
CREDIT HOURS:	Theory = 02	Practical = 01	Total = 03
CONTACT HOURS:	Theory = 32	Practical = 48	Total = 80
PREREQUISITE:	None		
MODE OF TEACHING:	Instruction: 2 hours of Lecture per week (67%) Lab Demonstration: 3 hours of Lab work per week (33%)		

Course Description:

The aim of this course is to enable the participants to build their capacity to integrate environmental concerns in project proposals. The specific objectives of the course are to help students to: learn the principles, skills, procedures and practices of integrating environment in development through EIA; become aware of the legal and regulatory obligations of integrating environment in development projects; familiarize themselves with the techniques of getting public participation and integrate socio-economic aspects in development projects; and enable the participants to conduct an EIA study for a development project.

TOPICS COVERED:

Week#	Topics
1	Introduction: principles, concepts and purposes of IEE and EIA and its significance for the society
2	Introduction: principles, concepts and purposes of IEE and EIA and its significance for the society
3	Cost and benefits of EIA
4	Main stages in EIA process
5	Main stages in EIA process
6	Public consultation and participation in EIA process
7	Methods and techniques for impact prediction and evaluation
8	Methods and techniques for impact prediction and evaluation
9	**Midterm Exam – MSE**

10	Integration during project life cycle
11	Integration during project life cycle
12	EIA review and post project analysis
13	EIA process management
14	EIA process management
15	Role of quality assurance and quality control in environmental analysis
16	EIA Regulations and guidelines in Pakistan
17	EIA Regulations and guidelines in Pakistan
18	**End Semester Exam**

Practical Work:

Week#	**Topics**
1	Orientation
2	Intro to tools, programs used in EIA
3	Screening & Scoping exercises
4	Screening & Scoping exercises
5	Using impact prediction and analysis tools; Checklist, Matrices, Networks, Overlays
6	Using impact prediction and analysis tools; Checklist, Matrices, Networks, Overlays
7	Using impact prediction and analysis tools; Checklist, Matrices, Networks, Overlays
8	Identifying stakeholders
9	**Midterm Exam – MSE**
10	Role plays exercises
11	Role plays exercises
12	Organizing public Participation
13	Organizing public Participation
14	Field Visit

15	Case study to be completed by the end of the semester
16	Presentations
17	Presentations
18	**End Semester Exam**

Text and Material:

1. Environmental Impact Assessment Handbook for Pakistan, Fischer, T.S. (ed.), 2014, Liverpool University Press, UK
2. Introduction to Environmental Impact Assessment, 5th Edition, Glasson, J., Therivel, R., and Chadwick, A., Routledge, London, 2019.
3. Environmental Impact Assessment Training Manual, International Institute for Sustainable Development, 2016.

ASSESMENT SYSTEM:

Theoretical/Instruction	**100%**
Assignments	10%
Quizzes	15%
Mid Semester Exam	25%
End Semester Exam	50%

Practical Work	**100%**
Lab Work	70%
Lab Exam/Projects	30%