Course	Credit Hours		Contact	Total
Code	(Th-Pr)	Environment Impact Assessment	Hrs/Week	Contact Hrs
	3-0	(Elective)	(Th-Pr)	(Th-Pr)
ESE 819		,	3.0-0	45-0

Course Outline:

Understanding the process of EIA, to ensure the efficient utilization of resources and avoid serious and irreversible damage to the environment.

<u>Eligibility Criteria:</u> B.E (Chemical, Mechanical, Electrical, Environmental and Materials)

Recommended Books:

S. No.	Title	Author(s)	Assigned	Remarks
			Code	
1.	Environment Impact	Wood, Longman	WL	Text
	Assessment			
2.	Public Involvement in	World Bank Report	WB	Reference
	environment Assessment:			
	Requirements,			
	Opportunities, and Issues.			
3.	Environmental Impact	Ed. Vanclay, F &	EF	Reference
	Assessment	Bronstein		
4.	Sectoral Guidlines of	Ministry of Environment,	ME	Reference
	Environmental Impact	Govt of Pakistan		
	Assessment.			

Course Objectives:

Understanding the process of EIA, to ensure the efficient utilization of resources and avoid serious and irreversible damage to the environment.

Learning outcome:

Familiarity with available methods of conducting environmental impacts for development projects.

Topics Covered:

No.	Topics	Text	Contact
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		Book	Hours
1.	Introduction	WL+W	10
	An overview of environmental impact assessment; selection	В	
	of scientific, engineering, and socio-economic factors in		
	environmental impact assessment.		
2.	Identification of quantitative and qualitative	WL+E	8
	environmental evaluation criteria; application of traditional	F	
	and other techniques for assessing impacts of predicted		
	changes in environment quality.		
3.	Approaches for identifying, measuring, predicting, and	WL	7
	mitigating environmental impacts; modeling techniques		
	employed in environmental impact assessment		
4.	Environmental standards and environmental impact	EF	8
	assessment process; and methodologies for incorporating		
	environmental impact assessment into management		
	decision making. Students will learn to prepare an		
	environmental impact prediction, and apply environmental		
	impact assessment as a tool in management decision		
	making.		
5.	Case studies of environmental impact assessment for	WL	12
	several types of engineering/ science project are employed.		