

GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT

Department of Computer Science and Engineering

Academic Year: **2017-18**

Semester: **EVEN**

COURSE PLAN

Semester: **VIII**

Subject Code& Name: **10CV847&EIA**

Name of Subject Teacher: **SREEVIDYA RAMAN. S**

Name of Subject Expert (Reviewer): **K. PRABHAKAR**

For the Period: From: 6-02-12 to 2-06-17

Details of Book to be referred:

Text Books	1. Environmental Impact Analysis-Jain R.K.-Van Nostrand Reinhold Co. 2. Environment Impact Assessment- Anjaneyalu. Y.
Reference Books	1. Guidelines for EIA of developmental Projects Ministry of Environment and Forests, GOI. 2. Environment Impact Assessment - Larry W. Canter – McGraw Hill Publication.
Web Sources	W1-www.elsevier.com/locate/jclepro W2-www.pcbaasam.org W3- www.ripublication.com/ ijeem.htm W4- www.informaworld.com/smpp/title~content=t713426247 W5-5http://dx.doi.org/10.4236/gep.2014.24004 W6- ministry of road transport & highways, government of India W7- nuclear power corporation of India limited

Lecture NO	Topic Planned	Practical Applications & Brief objectives	Book referred with Pg No.	Planned Date	Executed Date	Deviation Reasons thereof	How Made Good / Reciprocate arrangement	Remarks by HOD
1.	UNIT – 1 Introduction to EIA,	Objective To know the impact	T1-2	6-2-17				

	Development Activity EIA	of the activities performed by the industrial sector on environment Application To utilize the natural resources in productive way Outcome It gives a road map for taking a project within local regulation Objectives To determine significant impacts early in the project cycle Application process of determining which are the most critical issues to study and will involve community participation Outcome prediction and mitigation studies follow scope with feasibility studies						
2.	Ecological Factors EIA, Rapid EIA		T2-12	6-2-17				
3.	Comprehensive EIA, EIA, EIS, FONSI			8-2-17				
4.	Need for EIA Studies, Baseline Information			9-2-17				
5.	Developmental activities of EIA			9-2-17				
6.	Relationship b/w EIA/FONSI		T1-26	13-2-17				
7.	Revision/Unit test			13-2-17				
8.	UNIT – 2 Step-by-step procedures for conducting EIA		T1-326	15-2-17				
9.	Environmental attributes		T1-36	16-2-17				
10.	Frame work of EIA		L1	16-2-17				
11.	Limitations of EIA.	T1-364	20-2-17					
12.	Limitations of EIA.	T1-365	20-2-17					
13.	Limitations of EIA.	T1-367	22-2-17					
14.	Unit-3 Frame Work of Impact Assessment	L1	23-2-17					
15.	Developmental Projects-	L1	23-2-17					

	settings	Objectives Identify appropriate measures for mitigating the potential impacts of the proposal Application 1.Avoid irreversible changes and serious damage to the environment 2. Safeguard valued resources, natural areas and ecosystem components Outcomes To enhance the socio- economic aspects of environment						
16.	Objectives & Scope of EIA		T2-12	27-2-17				
17.	Contents of EIA		T2-24	27-2-17				
18.	Methodologies of EIA- adhoc & Checklist		T1-79,80,81	1-3-17				
19.	Methodologies of EIA- Matrices & Networks	2-3-17						
20.	Methodologies of EIA- Overlays & Cost benefit analysis	2-3-17						
21.	Techniques of EIA	T2-21	6-3-17					
22.	ICICD check list, mathematical modeling	T2-21	6-3-17					
23.	Baseline studies, research techniques	L1	8-3-17					
24.	TUTORIAL- Case study	W1	13-3-17					
25.	Revision/Unit test		15-3-17					
26.	Unit- 4 Assessment & Prediction of Impacts on Air	W2	16-3-17					
27.	Assessment & Prediction of		16-3-17					
		Objectives Ensure that resources are used						

	Impacts on water	appropriately and efficiently Application Safeguard valued resources, natural areas and ecosystem components Outcomes To enhance the socio- economic aspects of environment	W2					
28.	Assessment & Prediction of Impacts on land and soil		20-3-17					
29.	Assessment & Prediction of Impacts on noise		20-3-17					
30.	Assessment & Prediction of Impacts on Socio-economic Environment		W1	22-3-17				
31.	EIA guidelines for Development Projects, Rapid & Comprehensive EIA		W1	23-3-17				
32.	TUTORIAL - Case study		W7	23-3-17				
33.	Revision/Unit test	Objectives Aspects regarding planning and implementation of development projects Application Economic and social factors are recognized and assessed while siting an industry Outcome A useful aid for decision making based on understanding of the environment implications which could be integrated with the analysis of the project costs and benefits.		27-3-17				
34.	Unit-5 EIA guidelines for Development Projects		T1-103	27-3-17				
35.	Developmental projects in EIA		W2	30-3-17				
36.	Case Study on developmental projects		W2	30-3-17				
37.	Rapid & Comprehensive EIA for Developmental Projects		T1-12,13	3-4-17				
38.	TUTORIAL - Case study		W1	3-4-17				
39.	Revision/Unit test			5-4-17				

40.	Unit- 6 Public Participation in EIA	Objective Public participation may be regarded as a way of empowerment and as vital part of democratic governance. Application Public contribute to evaluation of quality and acceptability of report Outcome To know the positive and area of improvement in the project area	L1	6-4-17				
41.	Public Participation in Decision Making		T1-107	6-4-17				
42.	Practical consideration in Preparing EIA and Statements		T1-31	10-4-17				
43.	Consideration in Preparing EIA/EIS and limitation		T1-111	10-4-17				
44.	Case study on water resource project		W4	12-4-17				
45.	TUTORIAL - Case study		W2	13-4-17				
46.	Revision/Unit test			13-4-17				
47.	Environmental Parameter Activity Relationships		T1-56	24-4-17				
48.	Matrices		L1	26-4-17				
49.	TUTORIAL - Case study		W1	27-4-17				
50.	Revision/Unit test		27-4-17					
51.	Unit- 8 EIA for Water Resource Developmental Projects	W4	3-5-17					
52.	EIA for Highway Projects	W6	4-5-17					
53.	EIA for Nuclear Power Plant Projects	W7	4-5-17					

54.	EIA for Mining Project- Coal		W3	8-5-17				
55.	EIA for Mining Project- Iron		W3	8-5-17				
56.	EIA for Thermal Power Plant		W5	11-5-17				
57.	Infrastructure Construction Activities		W2	11-5-17				
58.	TUTORIAL - Case study		W1	18-5-17				
59.	Revision/Unit test			18-5-17				

Prepared By: _____
 (Faculty)
 Date & Sign _____

Reviewed by: _____
 (Sub. expert)
 Date & Sign _____

Approved by: _____
 (HOD)
 Date & Sign _____

Approved by: _____
 (Principal/ Acad. Co)
 Date & Sign _____