



ARSD College, University of Delhi

Course Handout/Lesson Plan

Practical

Course Name : SEC : Environmental impact and Risk Assessment						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
II	2186001002	SEC Environmental impact and Risk Assessment	-	-	02	02
Teacher/Instructor(s)		Dr. Kanchan Srivastava				
Session		2022-23				

Learning Objectives:

- To gain insights into the concepts of environmental impact assessment (EIA) and its relevance for sustainable development
- To acquire knowledge of the socio-ecological and economic perspectives of any developmental project
- To evaluate methodologies to conduct and analyze EIA acceptable per prevalent regulations

Learning outcomes:

The Learning Outcomes of this course are as follows. After studying the course, the students will be able to:

- Conduct EIA of any developmental project and analyze its environmental and other implications
- Serve as consultant to different agencies working on EIA and a developmental plan
- Evolve strategies to ensure development and conservation hand-in-hand
- Formulate sustainable development strategies for any development plan varying in scale
- Identify and classify different development projects based on their sales and impacts on the environment

Details of the Lab Course		
Session	Name of Experiment	Contact Hours
Lab 1	Based on the given project details, classify them as Category A and Category B1 and B2 projects.	4hr
Lab 2	Prepare the scope of any recent developmental project of Category A which received Environmental Clearance..	4hr +4hr
Lab 3	To prepare a questionnaire and compilation of primary data to study the	4hr+4hr

	scope of the project based on public participation.	
Lab 4	Identify the impacts due to a Mining Project using the checklist method.	4hr+4hr
Lab 5	Based on the impacts identified in Activity 4, formulate mitigating measures for the project.	4hr+4hr
Lab 6	Determine the impacts due to a large-scale hydropower project in a given state using the matrix method and geo-spatial data	4hr+4hr
Lab 7	Prepare an environmental management plan for a mining project.	4hr
Lab 8	To conduct a public hearing for any project and prepare a draft for the process	4hr
Lab 9	Prepare a brief life cycle assessment of a smartphone.	4hr
Lab 10	Prepare a brief EIA report of a River Valley Project.	4hr
Total		60

Suggested Books:

Sl. No.	Name of Authors/Books/Publishers	Year of Publication/Reprint
1.	EIA 2020. Ministry of Environment, Forest and Climate Change, Draft Environment Impact Assessment Notification, 2020	2020
2.	Glasson, J. and Therivel, R., 2013. Introduction to Environmental Impact Assessment. Routledge.	2013
3.	MacKinnon, A.J., Duinker, P.N. and Walker, T.R., 2018. The Application of Science in Environmental Impact Assessment. Routledge.	2018
4.	Mareddy, A.R. (2017) Environmental Impact Assessment Theory and Practices, Butterworth Heinemann	2017

Evaluation Scheme:

No.	Component	Duration	Marks
1.	Evaluation scheme and mode will be as per the guidelines notified by the University of Delhi.	--	--