



ENVIRONMENTAL IMPACT ASSESSMENT

PROF. HARSHIT SOSAN LAKRA
Department of Architecture and Planning
IIT Roorkee

TYPE OF COURSE : New | Elective | UG/PG
COURSE DURATION : 12 weeks (24 Jan' 22 - 15 Apr' 22)
EXAM DATE : April 24, 2022

INTENDED AUDIENCE : Students and Professional of Urban Planning, Regional Planning ,Rural Planning, Environmental Planning, Transportation Planning, Disaster management , Life Sciences and Civil Engineering

INDUSTRIES APPLICABLE TO : NEERI, NABET, GREEN Ultratech Environmental Consultancy and Laboratory, Green India Consulting, SECON, SLR, MANVIT, AEPPL, Umwelt Technologies India Pvt. Ltd Ministry of Environment, Forest and Climate Change

COURSE OUTLINE :

Environmental Impact Assessment (EIA) is a process of evaluating the likely environmental impacts of a proposed project or development, taking into account inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse. EIA is basically a tool used to assess the positive and negative environmental, economic and social impacts of a project. This is used to predict the environmental impacts of a project in the pre-planning stage itself so that decisions can be taken to reduce the adverse impacts. In this course students will develop basic understanding of the history, need, structure, process, involved methods and challenges. Students will also learn criteria for selecting method for impact assessment, overview of methods, parameters for public participation and technique for writing reports.

ABOUT INSTRUCTOR :

Prof. Harshit Sosan Lakra is an Assistant Professor in the Department of Architecture and Planning. She is trained as an Architect and has done Environmental Planning from Centre for Environmental Planning and Technology (CEPT) University Ahmedabad, Gujarat. She has done her Second Master in City and Regional Planning from Cornell University, New York, USA and Her PhD from IIT Roorkee. She has been engaged in teaching the course Environmental Impact Assessment since 2015 at IIT Roorkee and Before at BIT Mesra. She has conducted environmental focused studios for the planning students in Industrial area Roorkee, Piran Kaliyar Sharif (Heritage Site) Haridwar, Valley of Flowers, Uttarakhand and North Lakhimpur in Assam.

COURSE PLAN :

Week 1: Introduction to Environment Management & EIA

Week 2: Legal, Policy & Regulatory Framework

Week 3: EIA Procedure - Scoping & Screening and Establishing Baseline Conditions

Week 4: EIA Methodologies

Week 5: EIA Methods, Tools and Techniques

Week 6: Impact Identification & Analysis of Alternatives-II

Week 7: Public Involvement in EIA

Week 8: Impact Management - Mitigation & Preparation of Environment Management Plans (EMP)

Week 9: EIA Reporting & Review of EIA Quality

Week 10: Decision Making & Project Management

Week 11: Implementation & Follow up

Week 12: EIA Case Examples