

Title of the Course: Environment Impact Assessment III**Course Code: ESC-301****Number of Credits: 03****Total Contact Hours: 36****Effective from AY: 2022-23**

Prerequisites for the course:	The student should have completed ESC-106 (EIA I) and ESC-206 (EIA II)	
Objective:	Environmental degradation is occurring at an alarming rate. Hence, it is required to plan the developmental processes in a sustainable manner. An important tool to attain this is through the conduct of Environmental Impact Assessment.	
Content:	Module 1: Introduction EIA sectors – River valley, Mining, Manufacturing industries, Infrastructure, Power, Building and large construction, township and area development.	06 hours
	Module 2: EIA guidelines Cost-benefit analysis, Detailed project report, Feasibility report. Terms of Reference (TOR), Generic structure of EIA document and description of the project. Public consultation, Environmental Clearance (EC) processes, validity, extension, monitoring, transfer compliance report, Role of statutory agencies in environmental clearance. EIA consultant accreditation process in India. Components of EIA-Physical, Biological and Socio-cultural environment. EIA methods – Checklist & matrices.	10 hours
	Module 3: Comparative Evaluation of Alternatives Selecting a Preferred Alternative. Conceptual Basis for Trade-Off Analysis. Importance Weighting of Decision Factors. Plans and Monitoring. Elements of Mitigation. Environmental Management Plan (EMP), elements, structure and	10 hours

	<p>examples of various projects. Objectives of EIA implementation and follow up. Tools of EM & performance review. Environmental auditing. Evaluation of EIA effectiveness and performance.</p> <p>Module 4: EIA of Mining</p> <p>Potential sites, brief description of the project, identification, nature of mineral, Quality and quantity, resource available, geology, types of mining, carrying capacity, Blasting - Rules and Guidelines, Dust and noise pollution, transportation, Biodiversity assessment, Impact on human settlement, Restoration, reclamation and mitigation measures, hydrology, safety and prevention measures.</p>	10 hours
Pedagogy:	Lectures/assignments/workshops and discussion/presentations.	
References/Readings	<ol style="list-style-type: none"> 1. Glasson, J., Therivel, R. & Chadwick, A. (2005). Introduction to Environmental Impact Assessment. Published by Routledge. Taylor and Francis Group. New York 2. Arts, J., & Morrison-Saunders, A. (Eds.). (2012). <i>Assessing impact: handbook of EIA and SEA follow-up</i>. Routledge. Taylor and Francis Group. New York 3. Abaza, H., Bisset, R., Sadler, B., (2004). Environmental Impact Assessment and Strategic Environmental Assessment: towards an Integrated approach. UNEP. 4. Therivel, R., & Wood, G. (Eds.). (2017). <i>Methods of environmental and social impact assessment</i>. Routledge. Taylor and Francis Group. New York. 5. Morris, P., & Therivel, R. (Eds.). (2001). <i>Methods of environmental impact assessment</i> (Vol. 2). Taylor & Francis. New York 	
Learning Outcomes	On completion of the course, the student will be able to apply various methods to assess the impacts of developmental projects on various aspects of environment with special reference to mining.	