

1.	Title of the course	Integrated Impact Assessment
2.	Course number	CE511L
3.	Structure of credits	3-0-0-3
4.	Offered to	PG
5.	New course/modification to	Modification To CE5023/7
6.	To be offered by	Department of Civil and Environmental Engineering
7.	To take effect from	July 2022
8.	Prerequisite	CoT
9.	<b>Course Objective(s):</b> Exposure to the key approaches to integrated impact assessment—environmental, social and health. To provide a basic understanding of the Environmental Impact Assessment process for planning, project evaluation, monitoring, and regulatory enforcement To understand the application of Strategic Environmental Assessment/Life Cycle Assessment/Environmental Risk Assessment, and Monitoring and Evaluation process in project planning and decision making	
10.	<b>Course Content:</b> Introduction and an overview of Integrated Impact Assessment (IIA) — Sustainable Development challenges and need for IIA; Key Approaches of IIA and current practices, changing perspectives and debate in IIA; Environmental Impact Assessment (EIA) — Environmental clearance procedures, Environmental Management Plan; EIA case study for various infrastructure and industrial projects; Social Impact Assessment, Resettlement & rehabilitation and development; Health Impact Assessment (HIA), Impact of environment on health, tools and techniques in HIA, Case Study; Emerging Dimensions & Future Directions — Strategic Environmental Assessment, Environmental Risk Assessment, Life Cycle Analysis; Monitoring and Evaluation—Basic concepts, guidelines, tools, evaluation designs and its applications.	
11.	<b>Textbook(s):</b> 1. Canter L C, Environmental Impact Assessment, McGraw Hill, (1996). 2. Matthews H S, Hendrickson C T, Matthews D H, Life Cycle Assessment: Quantitative Approaches for Decisions That Matter, Self-Published, (2015). 3. Vanclay F, Bronstein D A, Environmental and Social Impact Assessment, Wiley, (1995).	
12.	<b>Reference(s):</b> 1. Dale R, <i>Environmental Impact Assessment</i> , SAGE (2004). 2. Lee N, Kirkpatrick C, <i>Integrated Appraisal and Sustainable Development in a Developing World</i> , Edward Elgar, (2000). 3. Marelize G, Jody Z K, <i>Making Monitoring and Evaluation Systems Work: A Capacity Development Toolkit</i> , World Bank, (2009).	