

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
PROFORMA FOR NEW COURSE

1.	Title of the Course	Integrated Impact Assessment
2.	Course Number	CE5023
3.	Status of the Course	Elective
4.	Structure of Credits	3-0-0-3
5.	Offered To	PG
6.	New Course/Modification to	New
7.	To be Offered by	Dr. Suresh Jain
8.	To take effect from	January 2019
9.	Prerequisite	CoT
10.	Whether approved by the Department	Yes
11.	Course Objective: 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	
12.	Course Content: 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.	
13.	Text book(s): 1. Canter, L.C., <i>Environmental Impact Assessment</i> , McGraw Hill , (1996). 2. Matthews, H.S., Hendrickson, C.T., Matthews, D.H., <i>Life Cycle Assessment: Quantitative Approaches for Decisions That Matter</i> , Self-Published, (2015). 3. Vanclay, F., Bronstein, D.A., <i>Environmental and Social Impact Assessment</i> , Wiley, (1995).	
14.	Reference(s): 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).	