

<b>Course title:</b> Integrated Impact Assessment			
<b>Course code:</b> NRE 145	<b>No. of credits:</b> 4	<b>L-T-P:</b> 45-15-0	<b>Learning hours:</b> 60
<b>Pre-requisite course code and title (if any):</b>			
<b>Department:</b> Natural and Applied Sciences			
<b>Course coordinator:</b> Dr Ranjana Chaudhuri		<b>Course instructor:</b> Dr Ranjana Chaudhuri	
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<b>Course type:</b> Core		<b>Course offered in:</b> Semester 3	
<p><b>Course Description</b></p> <p>There is growing realization that the multi-dimensional nature of sustainable development targets requires the use of different disciplinary approaches, in an integrated framework, to the impact assessment of development projects/programmes. Integrated Impact Assessment (IIA) provides such a framework for a balanced consideration of the economic, environmental, social and health impacts of development interventions at the project, sector and economy levels. The course in Integrated Impact Assessment (IIA) is designed to build detailed knowledge, understanding and skills among students for conducting IIA, so that they are able to identify sustainable modes of environmental operation. The course starts with an overview of IIA—the different methodologies on which it draws the state of the art, current practices, constraints and future directions. This is followed by in-depth exposure to the key approaches to IIA—environmental, social and health—with a focus on methodology and tools in the key discipline areas. Social CBA is introduced as a possible tool for the integrated analysis of the environmental, social and health impacts of development projects or programmes. AHP is introduced as an easily understood multiple-criteria decision-making technique. Technology assessment, risk assessment, etc are discussed at the conceptual level to provide students with a flavour of the emerging dimensions of IIA. The final module of the course is intended to strengthen students’ analytical capacity and assessment skills by making them work through actual/simulated scenarios.</p>			
<p><b>Course objectives</b></p> <ol style="list-style-type: none"> <li>1. Exposure to the key approaches to integrated impact assessment (environmental, social and health) with a focus on methodology and tools in the key discipline areas.</li> <li>2. To provide a basic understanding of the Environmental Impact Assessment (EIA) process as it is used for research, planning, project or program evaluation, monitoring, and regulatory enforcement.</li> <li>3. To relate the uses of scientific research to practical situations in project planning and decision making using various impact assessment tools such as Health/Social/ Strategic environmental impact assessment</li> </ol>			