Course Title: Energy Systems Modelling			
Course Code: NRC 186	No. of Credits: 3	L-T-P: 32-10-0	Learning Hours: 42
Pre-requisite Course Code and Title (if any):			
Department: Natural and Applied Sciences			
Course Coordinator:		Course Instructor:	
Contact Details:			
Course Type: Elective		Course Offered In: Semester 3	

Course Description

As a part of the course, the students will be acquainted with the framework for energy modelling and analysis, including a detailed overview of various modelling approaches deployed for policy research and analysis for facilitating decisions makers in energy planning and policy formulation. An understanding of the fundamentals of the energy systems modelling allows students to develop skills for critically evaluating the modelling approach to be deployed for the problem/research question at hand. Students will also be trained in methods for deriving the appropriate input drivers used in energy system modelling.

Course Objectives

- To introduce students to the basics of energy modelling, including terminology, methods, tools, and techniques of energy modelling available to energy practitioners for understanding, assessing, and analysing energy systems.
- To impart knowledge on financial analysis of energy technologies.
- To successfully equip students on the application of modelling techniques for energy-economy-environment interaction-related policy analysis and research.