4. COURSE OVERVIEW

Semester 1	Semester 2	Semester 3	Semester 4
Research Methodology (4 Credit) *Core General course*	Energy Economics and Systems Planning (4 Credit) *Core Energy Planning Course*	Elective -III (4 Credit)	Dissertation / Thesis Work (16 Credit)
Operation Research/ Management Science (4 Credit) *Core Management Course*	Energy Financial Management (4 Credit) *Core Management Course*	Elective -IV (4 Credit)	
Thermo-fluid (4 Credit) *Core Technology Course*	Elective -I (4 Credit)	Group Projects (4 Credit)	
Energy Resources (4 Credit) *Core Energy Course*	Elective –II (4 Credit)		

Note:

1. Total Credit = 60 Credits.
2. Course work , directed study and projects = 44 Credits
3. Dissertation = 16 Credits
4. Depending on the interest of students only 2 electives are offered in each term. Minimum number of students in each elective should be 6.

4.1 Core and Elective Courses

The course consists of two types of courses: the Core Courses which deal with the fundamental theory and the Elective Courses which deal with the specific details of the course.

Similarly, conferences and seminars are organized time to time to make students abreast with the current happenings in energy world. Also students are encouraged to participate in various national and international conferences.

The core courses of the Energy System Planning and Management program focuses on the fundamentals of energy systems planning, analysis, modeling and management. Elective courses chosen will enable students to focus their courses to their technical interests and to specific topics in power plant technology, energy generation, transmission, distribution, control systems, energy economics and management. In addition, required project works will provide hands-on real world experience.

4.2 Group Project Work

The purpose of the group project in second year, second semester is to provide an opportunity for the group of students to investigate, analyze and to provide possible solution to an existing energy related

problems. The group project must be completed in the allocated term. The group project may be done in small group normally two to three students per group.

4.3 Dissertation /Master's Thesis

The main objective of Master's Degree Dissertation is to carry out original research work concerning energy related problems and solve those problems. Students are encouraged to publish articles in national and international journals.

5. CREDIT SYSTEM

The course curriculum is organized in the overall framework of Credit System. Each course has a certain number of credits which indicates the weightage. The number of credits depends on the contact hours for the course and its work load. Course with one credit weightage will have 15 lecture hours in a semester. The tutorial consulting and assessment hours will vary depending on the nature of the course. The total Credit for the master's program is 60 credits.

6. EVALUATION SYSTEM

The evaluation system is based on the continuous assessment by the course teacher and the final examination. The students have to pass individually in the assessment as well as the final examination. The minimum pass marks for the assessment and final examination is 50%.

The percentage is calculated from the following criterion:

$$Total\ Percentage = \frac{\sum Credit \times Mark\ Obtained}{\sum Credits}$$

Depending upon the total percentage of the marks obtained, the following division shall be awarded:

Percentage	Division
>= 50 %	Pass
50 - < 65%	II
65-< 80%	I
80 and above	Distinction