Course title: Summer Internship

Course code: ENR 108	**No. of credits:** 2	**L-T-P:** 0-0-56	**Learning hours:** 240*
Pre-requisite course code and title (if any): NA			
Department: Department of Energy and Environment			
Course Coordinator: Project/ Placement coordinator	**Course Instructor:** Assigned supervisor(s)		
Contact details: email of assigned supervisors			
Course type: Core	**Course offered in:** Semester 3 (During summer break before semester 3)		

Course description

The course offers thorough problem-based learning approach, guided by realistic and challenging industry requirements. The course includes a 6-8 weeks of on-job training on current industry-relevant problem through supervised self-learning approach. The students shall apply their classroom learnings for identification of problem, execute analysis based on available literature, data& reports and present the output.

Course objective

- To provide industrial exposure to student to the real time problems related to contemporary areas of power sector, RE industry, green energy projects, energy efficiency, energy audit & management and policy & regulations.
- Enable the students to work on short industry projects and come up with the solutions commensurate with the assigned problem to the students.
- To impart skills in preparing detailed report describing the project and results/findings.
- Identify gap in existing knowledge to help develop a specialization

Course contents

Module	Topic	L	T	P
1	• Problem identification on thematic area in consultation with the host industry/organization • Define objective and relevant tasks to be performed • Define methods to be followed and tools to be used	0	0	16
2	• Define objective and relevant tasks to be performed • Define methods to be followed and tools to be used • Review of internal or external reports, articles, accumulated data, academic literatures on the specific problem • Perform survey-based research, if required • Analysis and interpretation of data/results	0	0	40
	Total	**0**	**0**	**56**

* The remaining learning hours are allocated for self-learning, interaction with expert, training at the organization, report writing etc.

Evaluation criteria

- Response/feedback from the host organization/supervisor (20%)
- Internship report (40%)
- Presentation and Viva (30%)
- Meeting timeline (10%) (Consisting of: joining report (2%), progress reports (2% each), feedback form (2%), and final thesis (2%).

- If plagiarism is detected using plagiarism checking software (e.g. Turnitin), it will be referred to the Summer Internship Committee (comprising of supervisors and faculty members), which would take a decision and penalty to be imposed/disciplinary action to be taken. The guidelines for the Summer Internship Committee are as follows:

Levels of Plagiarism	Percentage of similarity	Maximum percentage marks to be deducted from dissertation/thesis
Level 3	> 60%	Students registration to the program stands cancelled
Level 2	> 40% ≤ 60%	Student repeats the course next year
Level 1	> 10% ≤ 40%	The student is required to resubmit the report within a week
Level 0	≤ 10%	0%

• The students scoring less than or equal to 40% (or ≤ 40%) overall marks in the evaluation would be considered to have failed in this course. Grading of the Summer Internship will be absolute in nature and would be done as per the following criteria:

>90	A+
>80≤90	A
>70≤80	B+
>60≤70	B
>50≤60	C+
>45≤50	C
>40≤45	D
≤40	F

Learning outcomes

- Develop an understanding of real time problems/challenges in contemporary areas of power sector, RE industry, green energy projects, energy efficiency, energy audit & management and policy & regulations
- Realizing Standard Operating Procedure of industry for specific project domain
- To effectively communicate the learning through project report and oral presentation

Pedagogical approach

Self-learning; discussion with supervisors; interaction with experts;

Materials

Literature and reports related to the specific problem.

Additional information (if any)

A detailed guideline along with important dates and format will be notified by the department, in advance, with other relevant details.
If there is any change in evaluation criteria/policy, it will be updated in the guideline every year.
Report submission and schedule of presentation will be coordinated by Project/Programme coordinators.

Student responsibilities

Attendance; Discipline; Research Ethics etc.

External reviewers:

1. Dr. Anish Modi, Assistant Professor, IIT Bombay
2. Mr. Mudit Jain, Head (Research), Tata Cleantech Capital Limited
3. Mr. Alok Kumar Jindal, GM (RE), Tractebel Engineering Pvt. Ltd.