

Course Syllabi: UEE791 Project Semester (L : T : P :: 0 : 0 : 0)

1. **Course number and name:** UEE791; Project Semester

2. **Credits :** Credits: 16

3. **Specific course information**

Course Objectives

The project semester is aimed at developing the undergraduate education programme in Electrical Engineering to include a practical training in a professional engineering set up (a company, top educational institution, research institute etc.) hereafter referred to as host “organization” as deemed appropriate. The participating organizations are selected that are either already visiting Thapar University for placement or are forming new relationships of mutual benefit. The project semester gives the student the opportunity to translate engineering theory into practice in a professional engineering environment. The technical activity in the project semester should be related to both the student’s engineering studies and to the host organization’s activities and it should constitute a significant body of engineering work at the appropriate level. It should involve tasks and methods that are more appropriately completed in a professional engineering environment and should, where possible, make use of human and technology resources provided by the organization. It consolidates the student’s prior learning and provides a context for later research studies. The student remains a full time registered student at Thapar University during the project semester and this activity is therefore wholly distinct from any industrial interactions which may occur over vacation periods.

Assessment Details

Each student is assigned a faculty supervisor who is responsible for managing and assessment of the project semester. The faculty supervisor monitors the student’s progress in a semester and interacts with the industry mentor during his/her visit to the host organization twice. This includes a Reflective Diary which is updated throughout the project semester, an Interim Project Report, a Final Report with Learning Agreement/Outcomes and a Final Presentation & Viva which involves the faculty Supervisor and some other members from the department. The mentor from the host organization is asked to provide his assessment on the designated form. The faculty supervisor is responsible for managing and performing the assessment of the project semester experience.

4. **Specific goals for the course**

After the completion of course, the students will be able to:

- Acquire knowledge and experience of software and hardware practices in the area of project.
- Carry out design calculations and implementations in the area of project.
- Associate with the implementation of the project requiring individual and teamwork skills.
- Communicate their work effectively through writing and presentation.
- Demonstrate the knowledge of professional responsibilities and respect for ethics.