

Major Project/ Internship

01CI1803

Objective of the Course:

- Leverage knowledge to define industry, research, or societal problems.
- Systematically analyze project technicalities for optimal solutions.
- Evaluate and choose cost-effective solutions with ethical considerations.
- Recognize the importance of health, safety, environment, and IP in project execution.

Credit Earned: 08

Student's learning outcomes:

After successful completion of the course, it is expected that students will be able to,

- Apply knowledge to identify and define industry/research/societal problems.
- Analyze project technicalities using a systematic approach for optimal solutions.
- Evaluate and select cost-effective solutions while considering ethical implications.
- Demonstrate the importance of health, safety, environment, and intellectual property (IP) in engineering projects.

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	IA (M)	CSE (I)	Viva (V)	Term Work (TW)	
00	00	16	08	-	-	-	100	100	200

Detailed Syllabus

The major project will align with the objectives of the engineering program, focusing on its specialized areas and incorporating recent technological trends. Projects may encompass a wide range of activities such as prototype design, product development, laboratory experiments, simulation, software application, data analysis, and sustainable infrastructure systems development. Students will undertake comprehensive projects in academic, research, or industrial settings, utilizing various methodologies including computational techniques, system analysis, design methodologies, and analytical solution formulation.

Instructional Method and Pedagogy:

1. Type of Project will be assigned to an individual/ group of students based on their inclination/ willingness/ interest
2. The project may include a site visit/ software training/ research project/real-life problem as per the project type, where individual/ group of students can avail an opportunity to build an appreciation for the concepts to be utilized in understanding the actual scenario.