M.Tech. I Year: Semester – II

Subject Name: Mini Project with Seminar **Subject Code:** MTCO16208
Type of course: Dissertation
Pre-requisite: --

List of Courses where this course will be prerequisite: Major Project / Dissertation

Rationale: This course is of prime importance for taking Dissertation / Major Project in final year. This course provides a platform to the students for problem identification wherein they apply techniques to solve engineering problems.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	
0	0	4	2	0	0	0	60	40	100

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests. CA2: Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems TEE: Term End Examination TEP: Term End Practical Exam (Performance and viva on practical skills learned in course) CA3: Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

The goal of the Mini Project is to help students to apply their theoretical concepts for practical applications. Mini Project can help them to uplift their domain skills. It provides the platform for the students to undertake the major project / dissertation during the final year. Students are required to choose the topic of Mini Project which is relevant to their specialization. In addition to the Mini Project, students are required to prepare a seminar report based on the literature survey of the specialization topic. Evaluation of this subject is based on mid semester presentation(s) and end semester presentation. Mid semester evaluation should be based on problem identification referring to the latest literature review. End semester evaluation should be based on the report prepared on the identified topic and the methodology adopted involving scientific research, collection and analysis of data, determining solutions highlighting individuals' contribution.

Course Outcomes: At the end of this course, the student will be able to:

1. Identify engineering problems by reviewing the latest available literature.
2. Study different techniques/methods available to solve identified problems.
3. Solve the identified problem using software and / or hardware by applying engineering principles.
4. Learn to write technical reports.