Diploma Year – III (Semester VI)
Subject Name: Project II
Subject Code - 09CT0602

Objective:

The subject provides hands-on learning experience to the students with the opportunity to explore a problem or issue of personal or professional interest and to address that problem or issue through focused study and applied research under the direction of a faculty member or industrial guide. This course also provides platform to implement learnt concepts in various subjects in case of project design and to provide in-depth exposure in the field of software, data analytics, embedded, VLSI, networking, and security in case of industrial internship. It is also useful to enhance students' ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively.

Credits Earned: 09 Credits

Course Outcomes: After completion of this course, student will be able to:

1.   Investigate the chosen topic in depth
2.   Apply the concepts and theories learnt in previous subjects
3.   Apply the various methodologies to design project for specific application
4.   Explore the new ideas & the possible areas to work ahead
5.   Sharpen the skills in specific direction

Pre-requisite of course: Basic knowledge of all academic subjects and readiness to explore new things

Teaching and Examination Scheme:

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial / Practical Marks		Total Marks
				E	I		V	T	
Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
00	00	18	09	00	00	00	100	100	200

Contents:

Sr. No.	Topics
1	The Project work should include appropriate elements of engineering standards, design, analysis, modeling, simulation, experimentation, prototyping, software development etc. as per the requirement of the project definition
2	Exploration of various domains of the discipline and finalization of domain for project or internship
3	Identification of proposed project definition by student or students' group in coordination with faculty guide or industrial mentor to address issues related to economic, environmental, social, political, ethical, health & safety, manufacturability, sustainability, management, science etc.
4	Student's presentation on selected topic with outcomes of the project/internship and approval by project approval panel
5	Intermediate semester presentations include block diagram, flow chart, micro level block diagram, schematic, required hardware or software, features and application of project at regular interval
	Total Hours: 18 / Week

Assessment of project work:

	Assessment tool	Review - I	Review - II	Review – III
In semester evaluation	TW Marks Distribution	30 Marks	30 Marks	40 Marks
End semester evaluation	Assessment tool	Project Repot		Viva Exam
	Viva Marks Distribution	50 Marks		50 Marks

Suggested Theory distribution:

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process.

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
10%	10%	25%	25%	15%	15%

Requirement for submission of project work

- Each student team is expected to maintain a log book that would normally be used to serve as a record of the way in which the project progressed in case of in-house project or industrial internship

- In case of industrial internship certificate from the organization where student has worked is required with the remarks of project guide

- For each project definition two project reports in hard bound are required to submit to departmental project coordinator

- Each project group must be present either in physical or online for all three reviews

- Viva exam will be conducted at university and student's presence is required