

Program : Diploma in Computer Engineering, Computer Hardware Engineering, Information Technology, Cloud Computing and Bigdata, Cyber Forensics and Information Security, Communication and Computer Networking, Automation and Robotics, Artificial Intelligence	
Course Code : 4006	Course Title: Minor Project
Semester : 4	Credits: 2
Course Category: Minor Project	
Periods per week: 4 (L:0 T:0 P:4)	Periods per semester: 60

Course Objectives:

- To encourage students to articulate technical problems which can be solved through their learning experience.
- To provide knowledge in design and development of small-scale projects based on their engineering domain.
- To impart training to prepare standardized technical documents for small-scale projects.

Course Prerequisites:

Topic	Course code	Course name	Semester
Basics of computer knowledge		Introduction to IT systems lab	
Basics of programming		Problem solving and programming	2
		Programming in C	3
Basics of data base management		Data Base Management Systems	3
Knowledge about latest needs in IT industry		Internship 1	2

Course Outcomes:

On completion of the course, the student will be able to:

CO _n	Description	Duration (Hours)	Cognitive level
CO1	Identify a problem of social significance or a way to	15	Applying

	simplify day to day task.		
CO2	Employ the acquired skills to develop a solution to the identified problem	25	Applying
CO3	Interpret socioeconomic aspects of the technical solution.	5	Understanding
CO4	Prepare standardized document for the technical solution.	15	Applying

CO -PO Mapping

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3	3				3	3
CO2			3	3		3	3
CO3					2		3
CO4						3	3

3 - Strongly mapped, 2 - Moderately mapped, 1 -Weakly mapped

Course Outline

Module Outcomes	Description	Duration (Hours)	Cognitive Level
CO1	Find out a problem of social significance or a way to simplify day to day task.		
M1.01	Identify a real world problem	5	Understanding
M1.02	Analyse the problem using standard methods.	5	Applying
M1.03	Model a feasible solution for the identified problem	5	Applying
CO2	Employ the acquired skills to develop a solution to the identified problem.		
M2.01	Illustrate a technical solution by utilizing learning experience which they have acquired	5	Applying
M2.02	Implement the technical solution by applying technology which they have acquired	20	Applying
CO3	Interpret socioeconomic aspects of the technical solution..		

M 3.01	Interpret social aspect of the technical solution	2	Understanding
M 3.02	Interpret economic aspect of the technical solution	3	Understanding
CO4	Prepare standardized document for the technical solution.		
M4.01	Understand about standard documents	6	Understanding
M4.02	Apply standard tools for the preparation of documents for the technical solution	9	Applying
	Total	60	

Note: Students can do minor project as a group of 2-3. There is no duplication in experiments between groups.

Assessment Criteria and mark distribution for Minor Project

Sl No	Criteria	% of Mark
1	Problem Identification and modeling	20
2	Implementing technical solution and usage of tools	40
3	Relevance of topic	10
4	Report.	10
5	Role of individual and attendance	10
6	Viva voce	10