INSTITUTE	**DIPLOMA STUDIES**
PROGRAM	**DIPLOMA ENGINEERING (MECHANICAL ENGINEERING)**
SEMESTER	**6**
COURSE TITLE	**PROJECT-II**
COURSE CODE	**09ME1605**
COURSE CREDITS	**4**

Objective:

1 This course empowers the students to practice a portion of the engineering information or potentially abilities created amid the program to new circumstance or issue for which there are number of engineering solution. This course includes a planning of the project which is to be completed within allocated time limit and the preparation of a report. This course is also helps to develop ability to plan, use, monitor and control resources optimally and economically. By studying this course abilities like creativity, imitativeness and performance qualities are also developed in students. Leadership development and supervision skills are also integrated objectives of learning this course.

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

1 Identify the problem and apply innovative, creative and logical approach for problem solving.

2 To plan material and processes optimally and economically.

3 Plan, use, monitor and control resources optimally and economically.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	8	0	0	0	50	50

Contents : Unit	Topics	Contact Hours
Total Hours		

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Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**PRIMARY ACTIVITIES** Keep project report of V semester course Project-I • Project innovative ideas , Project innovative ideas , Appreciate the importance of course outcomes , Recheck and correct model or drawing if required , Industrial visit or industrial survey , Work allocation matrix	18
2	**PROJECT EXECUTION** Execute project preparation activities as per work allocation matrix. (Option of flexi time based work can also be practiced. For this option, it may not be necessary to exactly follow the time table slots. This can be on continuous base also along with time table slots).	38
3	**DRAFT PROJECT REPORT** Documentation of final project report which includes following in sequence. • Title page • Certificate • Index • Acknowledgement • Project title, Assembly and detail production drawings • List of activities and work allocation matrix • Plant layout with dimensions • List and specifications of machineries, equipment and tools • Bill of material with make or buy decision, Specifications of bought out parts • Process sheets-As per format given in course Industrial engineering • Flow process charts • Specification and consumption of consumables • Details of inspection / testing carried out., Details of rework / rectifications carried out • Cost estimation • Monitoring and control report/sheet • Notes on troubleshooting/ conclusion • References • Presentation including moments at work-photographs in action	28
4	**DRAFT GUIDE** MS Office report guidelines: • PAGE : A4 (ON ONE SIDE) • MARGIN : TOP 25mm : BOTTOM 25mm : RIGHT 20mm : LEFT 35mm • FONT : TIMES NEW ROMAN • SIZE : TITLE : 12 BOLD : CONTENT : 12 : SPACING : 18 points • HEADER : TITLE OF THE PROJECT, PAGE NUMBER ON TOP RIGHT. • FOOTER : ACADEMIC YEAR, SHORT NAME OF THE INSTITUTE	28
Total Hours		**112**

Textbook :

1 NA, NA, NA, NA

References:

1 A Hands-On Guide to Designing and Making Physical Things, A Hands-On Guide to Designing and Making Physical Things, Brian Bunnell and Samer Najia, Dale Dougherty, 2020

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as 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 / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking**
30.00	40.00	30.00			

Instructional Method:

1. The course delivery method will depend upon the requirement of content and need of students.
2. Viva examination will be conducted at the end of semester for evaluation of performance of students

Supplementary Resources:

1. https://www.forecast.app/blog/project-planning
2. https://nevonprojects.com/project-ideas/electronics-ideas/

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