

Subject Code: 1ET4020607	Subject Title: Project
Pre-Requisite	--

RATIONALE:

This course enables the students to exercise some of the knowledge and/or skills developed during the programme to new situation or problem for which there are number of engineering solutions. This course include planning of the tasks which are to be completed within the time allocated, and in turn, 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.

2. COMPETENCY.

The course content should be taught and implemented with the aim to develop different types of skills so that students are able: to acquire following competencies.

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

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

3. COURSE OUTCOMES.

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes in cognitive, psychomotor and affective domain to demonstrate following course outcomes.

- i. Plan and identify materials, processes and other resources optimally.
- ii. Develop innovative and creative ideas.
- iii. Develop leadership, interpersonal skill and team work.
- iv. Develop sense of environmental responsibility.
- v. Purchase raw material/standard parts.
- vi. Interpret the drawings, manufacture, assemble, inspect & if necessary modify the parts/unit/assembly of the project work.
- vii. Familiar with fast changes in technology.

TEACHING AND EVALUATION SCHEME:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)			
Lecture	Tutorial	Practical	Credit	Theory		Practical	
				University Assessment	Continuous Assessment	University Assessment	Continuous assessment
-	-	10	5	-	-	40	60

The practical/exercises should be properly designed and implemented with an attempt to develop different types of skills (outcomes in psychomotor and affective domain) so that students are able to acquire the competencies/programme outcomes. Following is the list of practical exercises for guidance.

Note: Here only outcomes in psychomotor domain are listed as practical/exercises. However, if these practical/exercises are completed appropriately, they would also lead to development of certain outcomes in affective domain which would in turn lead to development of Course Outcomes related to affective domain. Thus over all development of Programme Outcomes (as given in a common list at the beginning of curriculum document for this programme) would be assured.

Faculty should refer to that common list and should ensure that students also acquire outcomes in affective domain which are required for overall achievement of Programme Outcomes/Course Outcomes.

DETAILS OF COURSE CONTENTS:

SR. NO.	TOPIC
1	Work allocation matrix: Prepare work allocation matrix along with provision of follow-up remarks and notes. (Suggested format of work allocation matrix with provision of follow-up is attached herewith in Annexure -I).
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.)
3	Documentation and presentation: Documentation of final project report which includes following in sequence. types and working. - Title page-(Suggested as per Annexure-II.) - Certificate –As per Annexure-III. - Index. - Preface/Acknowledgement. - Course outcomes. - Project title. - Assembly and detail production drawings. - List of activities (suggested as per Annexure – IV) and work allocation matrix. - Plant layout with dimensions. - List and specifications of machineries, equipments 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. - Notes on individual achievement of skills / experience /problems / solutions. - References. - Day to day logbook as per Annexure-V. - Presentation including moments at work-video/photographs in action.

Notes:

a. Prepare project report with MS Office with following guidelines.

PAGE: A4 (ON ONE SIDE).

MARGINN: TOP :15mm.

BOTTOM :15mm.

RIGHT :15mm.

LEFT :30mm.

FONT: ARIAL.

SIZE: 12-BOLD, CONTENT12,

SPACING 18 POINTS,

HEADER: TITLE OF THE PROJECT, PAGE NUMBER ON TOP RIGHT.

FOOTER: ACADEMIC YEAR, SHORT NAME OF THE INSTITUTE.

b. Term work (hard copy) should also include experience logbook duly certified by workshop instructors (as applicable), Industry/Market/Field personnel (as applicable) and subject teachers.

c. Term work has to be defended by practical / oral examination to be conducted by external and internal examiners. Power point presentation is also to be included.