

PROJECT WORK- 1

DETAILED SYLLABUS

OBJECTIVES

1. Learn the objective of this project is to provide opportunity for the students to implement their skills acquired in the previous semesters to practical problems/problems faced by industry/development of new facilities
2. Make the students come up with innovative/ new ideas in his area of interest.
3. Identify, analyze and develop opportunities as well as to solve broadly defined mechanical Engineering problems
4. Enhance students' appreciation of the values of social responsibility, legal and ethical principles, through the analysis and discussion of relevant articles and real time projects

As far as possible students should be given application oriented project problems with a view to:

1. Develop an understanding regarding the size and scale of operations and nature of field work in which students are going to play their role after completing the course of study in Aeronautical Engineering.
2. Develop an understanding of subject based knowledge given in the classroom in the context of its application at work places.
3. Provide first hand experience to develop confidence amongst the students to enable them to use and apply acquired technical knowledge and skills to solve practical problems of the world of work.
4. Develop special skills and abilities like interpersonal skills, communication skills, attitudes and values.
5. Practical exposure to an industrial activity

For the fulfillment of above competencies, polytechnics may establish close linkage with 8-10 relevant organizations for providing such an experience. It is necessary that each organization is visited well in advance by respective teachers and activities to be performed by students are well defined. The chosen activities should be such which are of curricular interest to students and of professional value to industrial/field organizations.

Each Project batch must have Minimum of 5 students.

Effort should be made to identify actual field problems to be given as project work to the students. Project selected should not be too complex which is beyond the comprehension level of the students. The placement of the students for such a practical cum project work should match with the competency profile and interest of students. Students may be assessed both by industry and polytechnic faculty.

The suggested performance criteria are given below:

- a) Punctuality and regularity (Log book - mandatory and to be produced during IA verification)
- b) Initiative in learning/Demonstration and fabrication of model
- c) Level/proficiency of practical skills acquired
- d) Originality
- e) Scope for patentability
- f) Sense of responsibility
- g) Self expression/ Communication skills
- h) Interpersonal skills.
- i) Report writing skills
- j) Viva voce

The Project Report should consist of following items.

1. selection of project and feasibility of study
2. Preparation of synopsis/PPT presentation.
3. Market survey, cost and estimation of project