

GUJARAT TECHNOLOGICAL UNIVERSITY

Branch Name: Mechanical Engineering (19)

Subject Name: Project – II

Subject Code: 2181909

B.E. Semester 8

Type of course: Project work

Prerequisite: -

Rationale: To enhance employability skills of the students Project work is required. It provides practical experience in a field of Mechanical Engineering and help to reinforce theoretical knowledge gained in different courses to solve real life challenges.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE Viva (V)	PA (I)		
-	-	16	16	-	-	80	20	100

L- Lectures; T- Tutorial; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Content:

During the final semester of Mechanical Engineering, students are required to carry out project work in the field of Mechanical Engineering.

In a major project work students are expected to ...

- Survey and study published literature related to project
- Do patent search analysis and submit PSAR (Patent Search Analysis Report)
- Design algorithm/circuit/configuration for the project and analyse /verify through simulations.
- Decide implementation method and list components or parts required.
- Point out practical difficulties faced during implementations and device to solve them.
- Iterate design if feasible to obtain better results.
- Optimize the project design in terms of cost, area, power, computation complexity etc.
- Compare results of projects with other similar design specifications.
- Prepare project report and do presentation before department project committee.
- Conclude the project work and suggest future work.

Intermediate and final presentation in presence of department project committee is essential for review of the work done.