



# GUJARAT TECHNOLOGICAL UNIVERSITY

## Bachelor of Engineering (Part time)

Subject Code: 2970001

Semester – VII

Subject Name: Mini Project

Type of course: Project work

Prerequisite: Engineering courses (Basic science, Engineering Science and core courses), Effective Technical Communication

Rationale: To enhance employability skills of the students, a project work is must. It provides practical experience in the field of engineering and helps to reinforce theoretical knowledge gained in different courses to solve real life challenges. The students are given exposure to explore the new developments and techniques, which can lead them to self-employment or even employment generation through extension of the work done in project.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
0	0	0	4	0	0	80	20	100

Content:

General Guidelines for Mini project

1. Mini Project should help students to explore and strengthen the understanding of fundamentals through practical application of theoretical concepts.
2. Students will be required to select the topic relevant to their branch and that has value addition. The stereotype study of system/circuit etc. shall be avoided.
3. The internal evaluation of the mini project shall be done at the mid of the semester and at the end of the semester. The distribution of internal marks of these evaluations shall be decided by the faculty mentor/department committee.
4. The mini project work shall be carried out under the guidance of a faculty mentor.
5. A comprehensive report is required to be prepared and submitted to the department at the end of the semester.
6. The evaluation by external examiner shall be made considering the above guidelines.

The guidelines about the nature of project work are as follows:

1. The mini project can be simulation of system/circuits OR hardware of a system/circuits OR experimental set up at the lab of the institute, depending upon the area and the complexity of the work involved.
2. If it contains only simulation, it shall be comprehensive. The student is expected to know the various aspects of simulation techniques in detail. The student shall be able to explain the results obtained in detail with all the aspects and different cases.



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Distribution of Marks					
R Level	U Level	A Level	N Level	E Level	C Level
5	10	30	30	15	10

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

### Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Demonstrate a sound technical knowledge of their selected topic	25%
CO-2	Undertake problem identification, formulation and solution	25%
CO-3	Communicate with engineers and the community at large in written and oral forms	25%
CO-4	Demonstrate the knowledge and understanding of engineering and management principle and apply it to selected topic	25%

### Reference:

- AICTE Model curriculum