

# GUJARAT TECHNOLOGICAL UNIVERSITY

## ELECTRONICS AND COMMUNICATION (11)

### MINI PROJECT

**SUBJECT CODE:** 2151102

B.E. 5<sup>th</sup> SEMESTER

**Type of course:** Undergraduate

**Prerequisite:** Basic Knowledge of Electronics

**Rationale:** This is a laboratory oriented course which will provide a platform to students to enhance their practical knowledge and skills by development of small scale electronics circuits/systems.

### Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
0	0	2	2	0	0	80	20	100

### Guidelines:

1. Students should select a problem which addresses some basic home, office or other real life applications.
2. The electronic circuit for the selected problem should have at least 20 to 25 components.
3. Students should understand testing of various components.
4. Soldering of components should be carried out by students.
5. Students should develop a necessary PCB for the circuit.
6. Students should see that final circuit submitted by them is in working condition.
7. 5-10 pages report to be submitted by students.
8. Group of maximum three students can be permitted to work on a single mini project.
9. The mini project must have hardware part. The software part is optional.
10. Department may arrange demonstration with poster presentation of all mini projects developed by the students at the end of semester.
11. It is desirable that the electronic circuit/systems developed by the students have some novel features.