



# GUJARAT TECHNOLOGICAL UNIVERSITY

## Bachelor of Engineering (Part Time)

Subject code: 2981101

Semester – VIII

Subject Name: Project

**Type of course:** Project work

**Prerequisite:** Electronics engineering courses (Basic science, Engineering Science and core courses), Effective Technical Communication and Design Engineering

**Rationale:** To enhance employability skills of the students; Industrial Training or Project work is required. It provides practical experience in a field of Electronics and Communication 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 (V)	PA (I)		
0	0	28	14	0	0	100	100	200

### Content:

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 analyze/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 seminar in presence of department project committee for review of the work done
- To explore possibilities of patent or research paper publications

During Project at institute, Students may be encouraged to take up projects which are aimed at providing solutions to societal problems, reduce drudgery and improving efficiency in rural work, green technologies, utilization of rural and urban waste, sanitation and public health, utilizing non-conventional energy sources, technologies for the benefit of the differently abled people and technologies ready to be implemented in the Institute.



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### Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Undertake problem identification, formulation and solution	20%
CO-2	Design engineering solutions to complex problems utilising a systematic approach and team work	30%
CO-3	Communicate with engineers and the community at large in written and oral forms	20%
CO-4	Demonstrate the knowledge and understanding of engineering and management principle and apply it to assigned project	30%

### Reference:

- AICTE Model curriculum
- AICTE Internship Policy: <https://www.aicte-india.org/sites/default/files/AICTE%20Internship%20Policy.pdf>