



TOLANI COLLEGE OF ARTS & SCIENCE

Accredited A by NAAC, Bangalore,
 Affiliated with KSKV Kachchh University, Bhuj, Gujarat
 (Under the Management of Gandhidham Collegiate Board, Adipur)
 Near Railway Station, Adipur (KUTCH) Gujarat. 370 205
 Ph. (O) 02836 260698, Fax: 02836 260573
 Website: www.tcas.ac.in

Principal: Dr.S.G.Dharmani

Email: tcasadipur@yahoo.co.in

Skill Enhancement Course

SEC-I: Electronic circuit designing & Testing

Total credits-2 Teaching hours: 60

SYLLABUS

Learning Outcomes:

After completing, students will be able to:

- Gain self-competency in physics of electronic circuits.
- To prepare for circuit making in an identified occupation.
- Understand and apply basic functions of every component

Unit No.	Topics	Credit/hours
1	Basics of Rectifier circuits: Bridge rectifier design with bread board Working with V Lab	10 Hrs
2	Basics of filter circuits: Bridge rectifier with Capacitor filter, Choke input filter and π filter design with linear PCB Working with V Lab	10 Hrs
3	Basics of AND gate circuits: Learn Boolean algebra by using AND gate circuit on bread board Working with V lab	10Hrs



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4	Basics of OR gate circuits: Learn Boolean algebra by using OR gate circuit on bread board Working with V lab	10 Hrs
5	Basics of NOT gate circuits: Learn Boolean algebra by using NOT gate circuit on bread board Working with V lab	10 Hrs
6	Self making circuit design	10 Hrs
	#### Assessment: - Weekly quizzes or assignments to assess understanding - Final project evaluation of self made circuit. - Optional: Midterm and final exams for comprehensive evaluation	
	#### Resources: - Virtual labs - Recommended textbooks - Basics of Electronics by V.K. Mehta	

Evaluation methodology: 25 practical College Assessment

Suggested Digital platforms/ web links for reading:





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Question No.	Type of Questions	Marks
1	Computer Practical v lab performance	5
2	Circuit designing & testing	15
3	Objective/Viva	5

