



Integrated Bachelor – Masters Programme

B.Sc.-M.Sc. (Electronics) Semester II

Course Code	IS02CELE52	Title of the Course	Electronics Practicals-II
Total Credits of the Course	01	Hours per Week	03

Course Objective	To make students familiar with the (i) Fundamental concepts of Basic Electronic Circuits. (ii) Electronic Circuit measurement techniques. (iii) Use of Laboratory Measuring Instruments. (iv) Development of laboratory Skills.
------------------	---

Course Content		
UNIT	Description	Weightage* %
1	1. Study of Diode Applications : Clipper, Clamper 2. Study of Diode Rectifier Circuits 3. Study of BJT Characteristics 4. Study of Multiplexer and Demultiplexer 5. Study of Encoder and Decoder 6. Study of Flip-Flops	100

Teaching-Learning Methodology	Demonstration of Laboratory Practicals Problem / design based approach. Question-Answer discussion and evaluation through Viva for each practical.
-------------------------------	--





SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2022-2023

Evaluation Pattern		
Sr. No	Details of Evaluations	Weightage* %
1	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2	Internal Continuous Assessment in the form of Practical, Viva Voce, Quizzes, Seminars, Assignments, Attendance (as per CBCS R6.8.3)	15%
3	University Examination	70%

Course Outcome. Having completed this course, the learner will be able to	
1	Know and obey sound laboratory practices.
2.	Work independently in the laboratory.
3.	Use measuring instruments.
4.	Understand the Working and Characteristics of Basic Electronic Circuits Practically.

Suggested References:	
Sr. No.	References
1	Practical Electronics Ralph Morrison, John Wiley & Sons Inc.
2	Electronics Fundamentals and Applications P C Chattopadhyay, D.Rakshit, New Age International Publishers.
3	Experiments Based on Analog & Digital Electronics Geeta Bhatt, Geeta Mongia.

On-line resources to be used if available as reference material	
On line resources:	
1.	https://swayam.gov.in/
2.	https://blog.mide.com/how-electronic-components-work
3.	https://www.electronicshub.org/basic-electronic-components/
4.	https://www.build-electronic-circuits.com/basic-electronic-components/

