

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI - 607 106.



ATTENDANCE AND ASSESSMENT RECORD

Name of the Staff : ARTHI. T
Department of the Staff : EEE
Semester / Subject : II / BE.32.71 - BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB
Period : FEB. - JUNE 2025



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MECHANICAL ENGINEERING

BE3271 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY

LTPC
0 0 4 2

COURSE OBJECTIVES:

- To train the students in conducting load tests on electrical machines
- To gain practical experience in characterizing electronic devices
- To train the students to use DSO for measurements.

LIST OF EXPERIMENTS:

CYCLE 1

1. Load test on DC Shunt Motor.
2. Load test on Self Excited DC Generator.
3. Load test on Single phase Transformer.
4. Load Test on Induction Motor

CYCLE 2

1. Characteristics of PN junction Diode
2. Characteristics of Zener Diodes
3. Characteristics of BJT
4. Characteristics of SCR
5. Characteristics of MOSFET
6. Half wave and Full Wave rectifiers
7. Study of Logic Gates
8. Implementation of Binary Adder and Subtractor
9. Study of DSO
10. Verification of ohms
11. Verification of Kirchhoff's Laws

TOTAL: 60 PERIODS

Name of the Staff :..... **ARTHI.T**

Department of the Staff :..... **EEE**

Department of the Student :..... **MECH**

Semester :..... **II Semester**

Subject Code & Name :..... **BE3271 & BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB**

Period From :..... **FEB** to..... **JUNE**

To be Signed at the end of the each Assessment

Assessment Report	-	-	MODEL LAB
Assessment Date	-	-	19.05.25
Report Due on	-	-	20.05.25
Signature - HoD of Students with Date	-	-	K. S. S. 20/5/25

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal
T. Arthi	V. S. S. 21/5/25	ASB	D. S. S.

RECORD OF

S. No.	Class Planned		Topic Name	BT
	Date	Period		
			cycle 7	
1.	03.3.25	4,5,6,7	Load test on DC shunt motor	K ₂
2.	10.3.25	4,5,6,7	Load test on self excited DC generator	K ₂
3.	17.3.25	4,5,6,7	Load test on single phase transformer.	K ₂
4.	24.3.25	4,5,6,7	Load test on Induction motor	K ₃

CLASS WORK

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
	10.3.25	4,5,6,7	VAC	BB	A
	17.3.25	4,5,6,7	-	BB	A
	24.3.25	4,5,6,7	-	BB	A
	30.3.25	4,5,6,7	-	BB	A

* BT- Bloom's Taxonomy, TA-Teaching Aids

24.4.25

RECORD OF

S. No.	Class Planned		Topic Name	BT
	Date	Period		
			cycle 2	
1.	7.4.25	4,5,6,7	verification of Ohms and Kirchhoff's Law	
2.	14.4.25	4,5,6,7	characteristics of PN and Zener diode	
3.	21.4.25	4,5,6,7	characteristics BJT	
4.	28.4.25	4,5,6,7	characteristics of SCR and MOSFET	
5.	5.5.25	4,5,6,7	Half wave and Full wave rectifier	
6.	12.5.25	4,5,6,7	Study of logic gates	
7.	19.5.25	4,5	Implementation of address	
8.	19.5.25	6,7	study of DSO	

* BT- Bloom's Taxonomy, TA-Teaching Aids

CLASS WORK

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
	7.4.25	4,5,6,7	-	BB	A
	10.4.25	4,5,6,7	-	BB	A
	19.4.25	1,2,3	-	BB	A
	19.4.25	4,5,6,	-	BB	A
	19.4.25	6,7	-	BB	A
	26.4.25	4,5,6,7	-	BB	A
	28.5.25	4,5	-	BB	A
	28.5.25	6,7	-	BB	A

V.P.H.

Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday				← BEEE →				
Tuesday								
Wednesday								
Thursday								
Friday								

Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1				
2				
3				
4				
5				

T. Ash
Subject In-Charge

[Signature]
HoD of Students

[Signature]
Principal



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COURSE OUTCOME:

CO no.	COURSE OUTCOME	Knowledge level
CO 1	Use experimental methods to verify the Ohm's and Kirchhoff's Laws.	K3
CO 2	Analyze experimentally the load characteristics of electrical machines	K4
CO 3	Analyze the characteristics of basic electronic devices	K4
CO 4	Use DSO to measure the various parameters	K1

Bloom's TAXONOMY: k-Level [K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5 Evaluate, k6-Create]

MAPPING OF COs WITH POs AND PSOs:

Program Outcome	COURSE OUTCOMES				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	3	3
PO 2	3	3	3	3	3
PO 3	2	2	2	2	2
PO 4	1	1	1	1	1
PO 5	1	1	1	1	1
PO 6					
PO 7					
PO 8	1.5	1.5	1.5	1.5	1.5
PO 9	2	2	2	2	2
PO 10					
PO 11					
PO 12					
PSO 1					
PSO 2					
PSO 3	1	1	1	1	1

Regulation 2021: 1 - Slight, 2 - moderate, 3 - Substantial

Teaching Aids

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	