



# SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

## NAAC DOCUMENTS

### QUALITY INDICATOR FRAME WORK

#### CRITERION - 1

#### CURRICULAR ASPECTS

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL

## SASURIE COLLEGE OF ENGINEERING



Criterion 1	Curricular Aspects	100
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### 1.1 Curricular Planning and Implementation (20)

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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Department : Electrical & Electronic Engineering  
Subject Code & Name : EE8602 - Protection & Switchgear.  
Class & Batch : III<sup>rd</sup>  
Semester : VI

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13	Sample Answer paper for all test (Min-3)	
14	Content beyond the syllabus	
15	Tutorial Class - schedule and content	
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17	PPT - handout	
18	Video - Animation - Soft copy	Soft copy
19	Question bank	Soft copy
20	Sample university question papers (min 5 QP-recent exam)	Soft copy
21	Personal Log book - Updated	
22	Lecture Note	Soft copy
23	Special Class if any. Approval letter. Schedule. content covered.	Soft copy

Sign:	Prepared By <i>S. Sowmya</i>	Approved By <i>Sowmya</i>
Name:	Ms. S. Sowmya Faculty	Mr. P. Sudarshan. IID





12/11/2018

Student Name List  
Department of EEE

Sem/yr: 1/III

S.NO	REG.NO	NAME
1	732419105001	ANITHYUJA P.
2	732419105002	DIBHITHA
3	732419105004	HAVITHYUJA R. A
4	732419105005	PRAVITHYUJA R. A

Signature		
Name	S.Sowmya AP/EEE	Mr.P.Sudarsan HD/EEE

Head, Dept. of EEE  
**SASURIE**  
College of Engineering  
Vijayamangalam-633056.

Dr.M.VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 633 056, Tirupur (Dt).



**SUBJECT INFORMATION RECORD**

Department : Electrical & Electronics Engineering

Subject : Protection and Switchgear.

Year : III

Semester : VI

Last year handled by : --

Percentage of Result (last year) : --

Quality Objectives : To produce result more than 90% in university exam.  
I will help to students increase their study oriented development skills.

Reference Book : 1. Badrinarayana, B.H. Vishwakharya, Power System Protection and Switchgear, New Age International Pvt. Ltd Publishers, Second Edition 2011.  
2. Y.G. Paithankar & S.R. Bhide Fundamentals of Power System Protection, Second Edition, Prentice Hall of India Pvt. Ltd. New Delhi 2010.

Prepared By	Approved By
Sign: <i>S. Sowmya</i>	<i>[Signature]</i>
Name: Mrs. S. Sowmya	Mr. P. Sudarshan
Faculty	III

Head, Dept. of CEE  
**SASURIE**  
College of Engineering  
Vijayamangalam - 638 056

*[Signature]*  
Dr. M. VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL



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**OBJECTIVES:**

To impart knowledge on the following Topics

- Causes of abnormal operating conditions (faults, lightning and switching surges) of the apparatus and system
- Characteristics and functions of relays and protection schemes.
- Apparatus protection, static and numerical relays
- Functioning of circuit breaker

**UNIT I PROTECTION SCHEMES**  
Principles and need for protective schemes - nature and causes of faults - types of faults - Methods of Grounding - Zones of protection and essential qualities of protection - Protection scheme 9

**UNIT II ELECTROMAGNETIC RELAYS**  
Operating principles of relays - the Universal relay - Torque equation - R-X diagram - Electromagnetic Relays - Over current, Directional, Distance, Differential, Negative sequence and Under frequency relays. 9

**UNIT III APPARATUS PROTECTION**  
Current transformers and Potential transformers and their applications in protection schemes - Protection of transformer, generator, motor, bus bars and transmission line. 9

**UNIT IV STATIC RELAYS AND NUMERICAL PROTECTION**  
Static relays - Phase, Amplitude Comparators - Synthesis of various relays using Static comparators - Block diagram of Numerical relays - Over current protection, transformer differential protection, distant protection of transmission lines. 9

**UNIT V CIRCUIT BREAKERS**  
Physics of arcing phenomenon and arc interruption - DC and AC circuit breaking - re-striking voltage and recovery voltage - rate of rise of recovery voltage - resistance switching - current chopping - interruption of capacitive current - Types of circuit breakers - air blast, air break, oil, SF6, MCBs, MCCBs and vacuum circuit breakers - comparison of different circuit breakers - Rating and selection of Circuit breakers. 9

TOTAL : 45  
PERIODS

**OUTCOMES:**

- Ability to understand and analyze Electromagnetic and Static Relays.
- Ability to suggest suitability circuit breaker.
- Ability to find the causes of abnormal operating conditions of the apparatus and system.
- Ability to analyze the characteristics and functions of relays and protection schemes.
- Ability to study about the apparatus protection, static and numerical relays.
- Ability to acquire knowledge on functioning of circuit breaker.

*hve*  
Dr.M.VIJAYAKUMAR ME., Ph.D.,  
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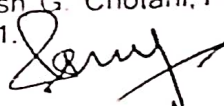
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).


**TEXT BOOKS:**

1. Sunil S.Rao, 'Switchgear and Protection', Khanna Publishers, New Delhi, 2008
2. B.Rabindranath and N.Chander, 'Power System Protection and Switchgear', New Age International (P) Ltd., First Edition 2011.
3. Arun Ingole, 'Switch Gear and Protection' Pearson Education, 2017.

**REFERENCES**

1. BadriRam ,B.H. Vishwakarma, 'Power System Protection and Switchgear', New Age International Pvt Ltd Publishers, Second Edition 2011.
2. Y.G.Paithankar and S.R.Bhide, 'Fundamentals of power system protection', Second Edition, Prentice Hall of India Pvt. Ltd , New Delhi, 2010.
3. C.L.Wadhwa, 'Electrical Power Systems', 6th Edition, New Age International (P) Ltd 2010
4. Ravindra P.Singh, 'Switchgear and Power System Protection', PHI Learning Private Ltd., New Delhi, 2009.
5. VK Metha, " Principles of Power Systems" S. Chand, 2005.
6. Bhavesh Bhalja, R.P. Maheshwari, Nilesh G. Chotani, 'Protection and Switchgear' Oxford University Press, 2011.

  
Head. R.  
**SAS**  
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Faculty Name : S Sowmya  
 Department : EEE  
 Subject / Code : EER602 & PROTECTION AND SWITCHGEAR  
 Academic Year : 2021-2022

LESSON PLAN

Designation: Assistant Professor  
 Register No: 4441/11/11

S.No.	Proposed		Details of Topic Covered	TA	Bcl	Actual		Remarks
	Date	Period				Date	Period	
UNIT I - PROTECTION SCHEMES								
1	07.3.22	4	Introduction	1	1	8.03.22	4	D. Vijay
2	08.3.22	4	Principles and need for protective schemes	1	1	9.03.22	4,3,4	
3	09.3.22	1,3,4	nature and causes of faults	1	1	10.3.22	3,6	
4	10.3.22	3,6	types of faults	1	1	11.03.22	2	
5	11.3.22	2	Methods of Grounding	1	2	12.03.22	3,6	
6	12.3.22	3,6	Zones of protection	1	2	14.3.22	4	
7	14.3.22	4	Zones of protection and essential qualities of protection	1	2	15.3.22	1,3,4	
8	15.3.22	4,3,4	Protection scheme	1	1	16.3.22	3,6	
9	16.3.22	3,6	Applications	1	1	17.3.22	2	

UNIT II - ELECTROMAGNETIC RELAYS								
10	17.3.22	2	Operating principles of relays	1	2	18.3.22	4	D. Vijay
11	18.3.22	4	Universal relay	1	2	21.3.22	4	
12	19.3.22	4	Torque equation	1	2	22.3.22	1,3,4	
13	22.3.22	1,3,4	R-X diagram	1	1	24.3.22	2	
14	23.3.22	3,6	Electromagnetic Relays	1	1	25.3.22	4	
15	24.3.22	2	Over current, Directional	1	1	26.3.22	2	
16	25.3.22	4	Distance, Differential, Negative sequence	1	1	26.3.22	3	
17	26.3.22	2	Under frequency relays					

UNIT III - APPARATUS PROTECTION								
18	28.3.22	1,3,4	Introduction	1	1	28.3.22	1,3,4	D. Vijay
19	29.3.22	3,6	Current transformers	1	2	29.3.22	3,6	
20	30.3.22	2	Potential transformers	1	2	30.3.22	2	
21	31.3.22	4	applications	1	1	31.3.22	4	
22	01.4.22	4	Protection of transformer	1	1	1.4.22	4	
23	11.4.22	1,3,4	Generator	1	2	11.4.22	1,3,4	

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LESSON PLAN

Faculty Name : S. Sowmya  
Department : EEE  
Subject / Code : EE8602 & PROTECTION AND SWITCHGEAR  
Academic Year : 2021-2022

Designation : Assistant Professor  
Semester / Year : VI / III

S.No	Proposed		Details of Topic Covered	TA	Ref.	Actual		Remarks
	Date	Period				Date	Period	
24	12.4.22	3,6	Motors	1	1	12.4.22	3,6	Sowmya
25	13.4.22	2	bus bars	1	2	13.4.22	2	
26	16.4.22	4	transmission line	1	1	18.4.22	4	
<b>UNIT IV - STATIC RELAYS AND NUMERICAL PROTECTION</b>								
27	20.4.22	1,3,4	Introduction	1	2	20.4.22	1,3,4	Sowmya
28	21.4.22	3,6	Static relays	1	2	21.4.22	3,6	
29	22.4.22	2	Phase, Amplitude Comparators	1	2	22.4.22	2	
30	23.4.22	4	Synthesis of various relays using Static comparators	1	2	23.4.22	4	
31	25.4.22	4	Block diagram of Numerical relays	1	1	25.4.22	4	
32	26.4.22	4	Over current protection	1	1	26.4.22	4	
33	27.4.22	1,3,4	transformer differential protection	1	1	27.4.22	1,3,4	
34	28.4.22	3,6	distant protection of transmission lines	1	1	28.4.22	3,6	
<b>UNIT V - CIRCUIT BREAKERS</b>								
35	30.4.22	4	Physics of arcing phenomenon and arc interruption	1	1	30.4.22	4	Sowmya
36	2.5.22	4	DC and AC circuit breaking	1	1	2.5.22	4	
37	4.5.22	4	re-striking voltage and recovery voltage	1	1	4.5.22	4	
38	5.5.22	1,3	rate of rise of recovery voltage	1	1	5.5.22	1,3	
39	6.5.22	3,6	resistance switching, current chopping	1	2	6.5.22	3,6	
40	16.5.22	2	interruption of capacitive current	1	2	16.5.22	2	
41	17.5.22	4	Types of circuit breakers	1	2	17.5.22	4	
42	18.5.22	4	air blast, air break, oil, SF6, MCCBs circuit breakers	1	2	18.5.22	4	
43	19.5.22	1,3	MCCBs and vacuum circuit breakers	1	2	19.5.22	1,3	
44	20.5.22	3,6	comparison of different circuit breakers	1	1	20.5.22	3,6	
45	23.5.22	2	Rating and selection of Circuit breakers	1	1	23.5.22	2	

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**LESSON PLAN**

S. No. 100000

III

ISSUE & PROTECTION AND SWITCHGEAR

2021-2022

Designation: ASSISTANT PROFESSOR  
Semester/Year: VI/III

Sl. No.	Planned		Details of Topic Covered	TA	Ref	Actual		Remarks
	Date	Period				Date	Period	

Books (Ref)  
1. Power System Protection and Switchgear - New Age International Pvt Ltd  
2. Power System Protection - Second Edition 2012

3. P. S. RAO AND S. S. RAO: 'Fundamentals of power system protection', Second Edition Prentice Hall of India Pvt. Ltd, New Delhi, 2010.

Author (TA)  
Date Exam Held (Date)  
Duration (Period)  
ICQ (Priority)

Planned By	Reviewed By	A. Checked By
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Mr. S. Srinivasan	Mr. P. Sudarshan	Dr. D. N. Anandakumar
Faculty	Head	Principal

*[Handwritten Signature]*

**Dr.M.VIJAYAKUMAR** ME., Ph.D.,  
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TEST PLAN FOR SUBJECT

Subject : EES602 - Protection & Switch Gear. Faculty: Ms. S. Sowmiya

Semester : VI Year: III

Department : EEE

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Internal Test - I	21.04.22	21.04.22.	-
2.	Internal Test - II	18.05.22	18.05.22	-
3.	Model Exam	10.6.22	10.6.22	-

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmiya	Mr. P. Sudarshan
	Faculty	HD





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Vijayamangalam, Tiruppur

### RESULT ANALYSIS OF TEST

Subject : Protection & Switchgear Date : 21.04.22  
Class : III Department : EEE  
Semester : VI  
Exam details & date : Internal Test I & 21.04.22  
Faculty : Ms. S. Sowmiya  
Number of students : 04  
No. of students attended : 04  
No. of students absent : NIL  
No. of students passed : 04  
No. of students failed : NIL  
Percentage of failures : NIL

#### RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	—	02	02	—	—

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmiya	P. SUDARSHAN
	Faculty	HD

Head, Dept. of EEE  
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Vijayamangalam - 638 056

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Vijayamangalam - 638 056, Tirupur (Dt).



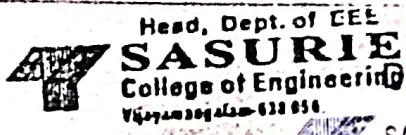
RESULT ANALYSIS OF TEST

Subject : Protection & Switch gear Date : 18.05.22  
Class : III Department : EEE  
Semester : VI  
Exam details & date : Internal Test II 2 - 18.05.22  
Faculty : Ms. S. Sowmya  
Number of students : 04  
No. of students attended : 04  
No. of students absent : NIL  
No. of students passed : 03  
No. of students failed : 01  
Percentage of failures : 25%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	—	01	—	03	—

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmya	P. SUGA REND
	Faculty	HD



Head, Dept. of EEE  
Dr. M. VIJAYAKUMAR ME., Ph.D.  
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**RESULT ANALYSIS OF TEST**

Subject : Protection & Switch gear Date : 10.06.2022  
Class : III Department : EEE  
Semester : VI  
Exam details & date : Model Examination ✓ 10.06.2022  
Faculty : Ms. S. Sowmiya  
Number of students : 04  
No. of students attended : 04  
No. of students absent : NIL  
No. of students passed : 02  
No. of students failed : 02  
Percentage of failures : 50%

**RESULT DATA:**

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	01	01	01	01	—

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmiya	P. SUDARSHAN
	Faculty	HD

Head, Dept. of EEE  
**SASURIE**  
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CORRECTIVE ACTION REPORT

Dept. : Electrical & Electronics Engg. Year : II

Subject : Protection & Switch gear Semester : VI

S.No	Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1.	Internal Test - I	100%.	90%.	Students got 100%.	-	-
2.	Internal Test - II	75%.	90%.	Given Assignment	-	-
3.	Model Exam.	50%.	90%.	Assignment Given	-	-

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmya	P. SUDARSHAN
	Faculty	HD



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SASURIE COLLEGE OF ENGINEERING  
Vijayamangalam - 638 056, Tirupur (Dt).





QUALITY OBJECTIVE MONITORING RECORD

Department : Electrical & Electronics Engineering

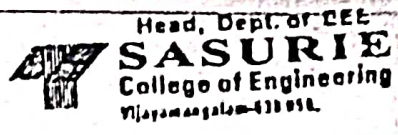
Year : III

Semester : VI

Subject : Protection & Switchgear.

S.No	Quality Objective	Internal Test-I		Internal Test-II		Model Test-I	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1	To Make Students obtain Knowledge on Protection & Switchgear.	90%	100%	90%	75%	90%	50%

	Prepared By	Approved By
Sign:		
Name:	Ms. S. Sowmiya	P. SUDARSHAN
	Faculty	HD



Dr. M. VIJAYAKUMAR ME., Ph.D.  
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Register  
Number:

SASURIE  
INSTITUTIONS

SASURIE  
College of Engineering  
Vijayamangalam, Tiruppur.

Internal test-II			Date/Session	18.05.2022	Marks	50
Course code	EE8602	Course Title	Protection and switch gear			
Regulation	2017	Duration	3 Hours	Academic Year	2021-2022	
Year	III	Semester	VI	Department	EEE	

**COURSE OUTCOMES**

CO1:	Ability to understand and analyze Electromagnetic and Static Relays.
CO2:	Ability to suggest suitability circuit breaker.
CO3:	Ability to find the causes of abnormal operating conditions of the apparatus and system.
CO4:	Ability to analyze the characteristics and functions of relays and protection schemes.
CO5:	Ability to study about the apparatus protection, static and numerical relays.
CO6:	Ability to acquire knowledge on functioning of circuit breaker.

Q.No.	Question	CO	BTS
<b>PART A</b> (Answer all the Questions 10 x 2 = 20 Marks)			
1	Write down the signification of PSM and TSM"	CO1	R
2	A relay is connected to 400/5 ratio current transformer with current setting of 150%. Calculate the plug setting multiplier when circuit carries a fault current of 4000A.	CO1	A
3	What is over fluxing? How its affect transformer	CO2	R
4	Write two protection schemes used for protection of bus-bar.	CO2	R
5	Explain the need for instrumentation transformer	CO5	E
6	Mention the limitations of Buchholz relay	CO5	R
7	Write the torque equation of the universal relay.	O4	R
8	Give the principle of negative sequence relay.	CO4	R
9	Why secondary of current transformer should not be opened?	CO4	R
10	ist the type of bus-bar protection.	CO5	R
<b>PART B</b> (Answer all the Questions 2x15=30 Marks)			
11a	Explain the construction and operation principle of impedance type distance relay with R-V Diagram?	CO1	C
OR			
11b	Draw and explain protection scheme of an A.C induction motor.	CO2	C
12a	Explain clearly about Buchholz relay for the protection of incipient faults in Transformer,	CO5	C
OR			
12b	(i) With neat sketch explain the protection schemes for motors. (2) (ii) With suitable diagram explain bus bar protection. (2)	CO5	C

S. Sowmiya  
17/05/22  
Course Faculty

(Name / Sign / Date)

Ms. S. Sowmiya

[Signature]  
17/05/22  
HOD

(Name / Sign / Date)

M. P. Sudhakar

[Signature]  
Principal

Principal

Dr. M. VIJAYAKUMAR ME., Ph.D.,  
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College of Engineering  
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Internal Assessment Test Answer Book

Name	N. Praveen Kumar			Year/Semester/Section	VI - VI
Register Number	73241910505	Date/Session	18-5-22 FN	Department	EEE
Course code	EE8602	Course Title	Protection and Switch gear		
Internal Assessment Test	IAT 1 <input type="checkbox"/>	IAT 2 <input checked="" type="checkbox"/>	IAT 3 <input type="checkbox"/>	Model	<input type="checkbox"/>
Name and Signature of the Invigilator with date					

Instruction to the Student: Put tick mark to the question attended in the column against question

Part A			Part B/ Part C				Total Marks	
Q. No.	✓	Marks	Q. NO.	✓	a	b		
					Marks	Marks		
1	✓	2	11	✓	13		13	
2	✓	0	12	✓	13		13	
3	✓	1	13					
4	✓	2	14					
5	✓	1	15					
6	✓	2	16					
7	✓	2	Grand Total				26	
8	✓	1	40				S. Sowmya	
9	✓	1						
10	✓	2						
Total		14	Grand Total				S. Sowmya 19.5.22 Name and Signature of the Examiner with date	

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	19	4	-	6	21	-	50
Marks Obtained	15	3		4	18	-	40
IQAC Audit - Remarks							 Dr. M. P. Sadasan Name and Signature of the IQAC member
Marks Verified							

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**SASURIE**  
College of Engineering  
Vijayamangalam, Tiruppur

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Assignment Question Paper**

Name of the Student: *M. Praveen Kumar*

AU Register Number: *732419105005*

Assignment - 01		Date of Issue:	Marks
Course code	EE8602	28.3.22	10
Year	III	Course Title	Protection and Switch gear
		Semester/Section	VI
		Date of Submission:	6.4.22

Q.No	Questions	CO
1	Methods of grounding	CO10.3

*S. Sowmya*

Name and Signature of the Faculty Incharge

*S. Sowmya*

*[Signature]*

HOD/EEE

*[Signature]*  
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**SASURIE**  
College of Engineering  
Vijayamangalam, Tiruppur.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Answer Sheet

Name of the Student: *M. Praveenkumar*  
AU Register Number: *732419105005*

Assignment - 01				Date of Issue:	28.3.22	Marks	10
Course code	EE8602	Course Title	Protection and Switch gear				
Year	III	Semester/Section	VI	Date of Submission:	6.4.22		

Q.No	Questions	CO
1	Methods of grounding	CO1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	6
Presentation Quality	2	2
Timely submission	2	2
Total marks	10	10

10

*S. Sowmya*  
Name and Signature of the Faculty Incharge  
*S. Sowmya*

*[Signature]*  
HOD/EEE

*[Signature]*  
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*[Signature]*  
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