



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



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





Criterion 1	Curricular Aspects	100
CIII I		100

- 1.1 Curricular Planning and Implementation (20)
- 1.1.1The 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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9	Corrective Action Report
10	Quality Objective Monitoring Record
11	Internal question paper
12	Internal assessment Test Answer book
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SASURIE College of Engine Vijavamangalam, Truppur

Department Subject Code & Name

: Electrical and Electronics Engineering

Class & Baten Semester : EE8701- HIGH VOLTAGE ENGINEERING : IV & 2019-2023

: VII (ODD)

CONTENTS - COURSE FILE

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6	Test Plan for the Subject	
7	Result Analysis	
8	Corrective Action Report	
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10	Internal test mark sheet(Consolidated)	
W#11	Internal test question paper	
12	Model question paper	
13	Sample Answer paper for all test(Min-3)	
3 14	Content beyond the syllabus	
15	Tutorial Class – schedule and content	Soft copy
16	Assignment – schedule and paper	
17	PPT - handout	Soft copy
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	Son o ;
23	Special Class if any, Approval letter, Schedule, content covered.	Sourcey.

Tally 1		
	Prepared By	Approve High
Sign:	Samuel	January
Name:	Mr.P.Sudatsan	Mr.P.Sudar an
5,	Faculty	H()) Heart, Dept. of EE

SAS LINE IN College of Engineering Viernan about 13215.





INDIVIDUAL TIME TABLE

lectronics Engineering

w.e.f

: 10.08.2022

HOUR		11		111	IV		V	VI	1	VII	VIII
DAY/ TIME	09.30a.m TO 10.15 a.m.	10.15a.m. TO 11.00a.m.	11.00a.m TO 11.10 a.m	11.10 a.m. TO 11.55 a.m.	11.55 a.m. TO 12.40p.m.	12.40 p.m. TO 1.20 p.m.	1,20 p.m. TO 2,00p.m.	2.00 p.m. TO 2.40p.m.	2,40 p.m. TO 2,50p.m.	7 50 p.m. 10 3 35 p.m.	3.35 p.m 10 4,20 p.m
MONDAY											
TUESDAY											
WEDNESDAY	HVE		AK			용	,		BREAK	IIVE	HVF
THURSDAY	.*		BREAK	l v		LUNCH	HVE		BRE		
FRIDAY				HVE					-		
SATURDAY	HVE							·			

S.No.	Subject Code	Name of the Subject	Class	No. of
1	EE8701	High Voltage Engineering	IV EEE	6
200	Prepared by	Verified by	Authorized by	
Sign:	5. pmg	Semmy	J. J.	
Name:	Ms.S.SOWMIYA	Mr.P.SUDARSAN	Dr.E.NANDAKUMA	.R
957	FACULTY	HOD	Principal	

Head, Dept. of EEE

SASURIS

College of Engineering

Wayamanyalam-638 056.



SASURIE College of Engineering

Academic Year 2022 - 2023 ODD Semester

STUDENTS NAME LIST

Dep	artment: 'IV EEE		
SI. No	Register Number	Student's Name	HII
1	732419105001	AJITHKUMAR.S	D
2	732419105002	DINESH.M	D
3	732419105004	NAVEEN KUMAR. A	D
4	732419105005	PRAVEENKUMAR.M	D

Hoad, Dept. If EEE

SASULTIE

College of Engineering

Victorian angalan-638 056.





SUBJECT INFORMATION RECORD

Department

: Electrical and Electronics Engineering

Subject

: EE8701- HIGH VOLTAGE ENGINEERING

Year

: IV

Semester

: VII

Last year handled by

. . .

Percentage of Result (last year)

Quality Objectives

: To impart knowledge on the following Topics

- ❖ Ability to understand Transients in power system, Generation and measurement of high voltage, High voltage testing & various types of over voltages in power system.
- Ability to measure over voltages.
- Ability to test power apparatus and insulation coordination
- * Make the Students; understand all Topics in this Subject and to get Good marks in the university Examination.
- . In this subject, I produce more than 85% of the Results in University Examination.

TEXT BOOKS:

- 1. S.Naidu and V. Kamaraju, 'High Voltage Engineering', Tata McGraw Hill, Fifth Edition. 2013.
- 2. E. Kuffel and W.S. Zaengl, J.Kuffel, 'High voltage Engineering fundamentals'. Newnes Second Edition Elsevier, New Delhi, 2005.
- 3. C.L. Wadhwa, 'High voltage Engineering', New Age International Publishers. Third Edition. 2010.

REFERENCES

- 1. L.L. Alston, 'High Voltage Technology', Oxford University Press, First Indian I ditton, 2011
- 2. Mazen Abdel Salam, Hussein Anis, Ahdab A-Morshedy, Roshday Radwan, High Voltage Engineering Theory & Practice, Second Edition Marcel Dekker, Inc., 2010.
- 3. Subir Ray,' An Introduction to High Voltage Engineering' PHI Learning Private Limited. New Delhi, Second Edition, 2013.

Tell Control	Prepared By	Approved By
Sign:	Sming	Shring
Name:	Mr.P.Sudarsan	Mr.P.Sudgrsan
	Faculty	[[O])
		Hood Dent of Cit

SAS I IDAM: VIJAYAKUMAR ME., Ph.D.,
Collings of Logistics PRINCIPAL
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt)

HIGH VOLTAGE ENGINEERING

3003

9

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OBJECTIVES:

To impart knowledge on the following Topics

- Various types of over voltages in power system and protection methods.
- Generation of over voltages in laboratories.
- · Measurement of over voltages.
- Nature of Breakdown mechanism in solid, liquid and gaseous dielectrics.
- Testing of power apparatus and insulation coordination

OVER VOLTAGES IN ELECTRICAL POWER SYSTEMS

Causes of over voltages and its effects on power system - Lightning, switching surges and UNITI temporary over voltages, Corona and its effects - Bewley lattice diagram- Protection against aver voltages.

DIELECTRIC BREAKDOWN

Properties of Dielectric materials - Gaseous breakdown in uniform and non-uniform fields **UNIT II** Corona discharges - Vacuum breakdown - Conduction and breakdown in pure and commercial liquids, Maintenance of oil Quality - Breakdown mechanisms in solid and composite dielectrics-Applications of insulating materials in electrical equipments.

GENERATION OF HIGH VOLTAGES AND HIGH CURRENTS Generation of High DC voltage: Rectifiers, voltage multipliers, vandigraff generator: **UNIT III** generation of high impulse voltage: single and multistage Marx circuits - generation of high AC voltages: cascaded transformers, resonant transformer and tesla coil-generation of switching surges - generation of impulse currents - Triggering and control of impulse

generators. MEASUREMENT OF HIGH VOLTAGES AND HIGH CURRENTS High Resistance with series ammeter - Dividers, Resistance, Capacitance and Mixed dividers - Peak Voltmeter, Generating Voltmeters - Capacitance Voltage Transformers, Electrostatic Voltmeters - Sphere Gaps - High current shunts- Digital techniques in high 9

voltage measurement. HIGH VOLTAGE TESTING & INSULATION COORDINATION

High voltage testing of electrical power apparatus as per International and Indian standards - Power frequency, impulse voltage and DC testing of Insulators, circuit breakers, bushing, isolators and transformers-Insulation Coordination& testing of cables.

TOTAL: 45 PERIODS

OUTCOMES:

- Ability to understand Transients in power system.
- Ability to understand Generation and measurement of high voltage.
- Ability to understand High voltage testing.
- Ability to understand various types of over voltages in power system.
- Ability to measure over voltages.
- Ability to test power apparatus and insulation coordination

- 1. S.Naidu and V. Kamaraju, 'High Voltage Engineering', Tata McGraw Hill, Fifth Edition, 2013.
- 2. E. Kuffel and W.S. Zaengl, J.Kuffel, 'High voltage Engineering fundamentals', Newnes Second Edition Elsevier, New Delhi, 2005.
- 3.C.L. Wadhwa, 'High voltage Engineering', New Age International Publishers, Third Edition, 1010.

IEFERENCES

Alston, 'High Voltage Technology', Oxford University Press, First Indian Edition, 2011.

Mazen Abdel - Salam, Hussein Anis, Ahdab A-Morshedy, Roshday Radwan, High Voltage

ngineering - Theory & Practice, Second Edition Marcel Dekker, Inc., 2010.

. Subir Ray, 'An Introduction to High Voltage Engineering' PHI Learning Private Limited New Dr.M.VIJAYAKUMAR ME., Ph.D., elhi, Second Edition, 2013.

PRINCIPAL SASURIE COLLEGE OF ENGINEERING. amang Jam = 638 056, Tirupur (D1)





(Accredited by NAAC, Under 21 and 128 status) LESSON PLAN

Department

: ELECTRICAL AND ELECTRONICS ENGINEERING

Designation: Associate Professor Semester/ Year IV/ VII

Subject / Code

: HIGH VOLTAGE ENGINEERING / EE8701

Academic Year : 2022-2023

S.No	Propo	_	Details of Topic Covered	TA	Ref.	Actua	AND RESIDENCE OF THE PARTY OF	HOD
	Date	Period	UNIT-I OVER VOLTAGES IN ELECTRICAL POWER S		5	Date	Period	
1	1. 100		Introduction	1	1	1 10		
-	10/8/2	2 1	Introduction			10/8		
2	10/8/22	7	Causes of over voltages	1	1	10)8	子	-
3	12/8/22	٠ لك	Effects on power system	_ 1	1	12/8	3	
4	19/8/22	4	Eightning, switching surges	1	1	12/8	4	
5	13/8/22	ì	Temporary over voltages	1	1	13/8	2	
6	17/8/22	_1_	Corona and its effects	1	1	17/8	1_	
7	17/8/22	7_	Bewley lattice diagram	1	1	17/8	7	
8	18/22	5	Linear Analysis&Characteristics	1	1	18)8	5_	_
9	24/8/22	1	Protection against over voltages.	1	1	24/8	1	&~
	,		UNIT II DIELECTRIC BREAKDOWN					-
10	25/8/2	5	Properties of Dielectric materials	1	2	25/8	5	
11	2418/22	3	Gaseous breakdown in uniform and non-uniform fields	1	2	26/8	3	
12	19/22	5	Corona discharges	1	2	1/9	5	
13	2/9/22	2	Vacuum breakdown	1	2	2/9	3	
14	7/0122	7	Conduction and breakdown in pure liquids, Maintenance of oil Quality	3	2	7/9	_1	
15	7/1/20	チ	Conduction and breakdown in commercial liquids, Maintenance of oil Quality	3	2	719	7	
16	7/9/02	8	Breakdown mechanisms in solid	3	2	719	8	
17	11/10/01	7_	Breakdown mechanisms in composite dielectrics	3	2	14/9	7	
8	14/9/2	8	Applications of insulating materials in electrical equipments	3	2	14/9	8	Sau
	1414 1-1		UNIT III GENERATION OF HIGH VOLTAGES AND HIGH	CURREN	NTS .	- 1		
9	15/0[00]		Generation of High DC voltage	1	2	15/9	5	
0	19912	2	Rectifiers & voltage multipliers	1	2	1-6/9	3	
1	169/22		vandigraff generator	3	2	17/9		i disk
2.	1-17/4-		Generation of high impulse voltage	3	2	21/3		
ogTi Vagina r 3 og r	11918		Single and Multistage Marx circuits	3	2	278	于	
4	-119/2	-	Generation of high AC voltages	3	37	21/9	3	
5	296/02	0	ascaded transformers, resonant transformer and tesla coll-	30	/	2219	61	
-	201-1	0	generation of switching surges Generation of impulse currents	13		210	100	
6	13)9(2			AKU		イガドートルロ		
7	24/9/2	1	SASURIE COLL	RINCIP	ENG	非科		1.04/15

Vijayamangalam - 638 056, Tirupur (Dr





(Accredited by NAAC, Under 2f and 128 status) LESSON PLAN

Faculty Name

: Mr.P.Sudarsan

: ELECTRICAL AND ELECTRONICS ENGINEERING

Department

: HIGH VOLTAGE ENGINEERING / EE8701

Subject / Code Academic Year

: 2022-2023

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Cerlenaet.	-	
Designation Semes	"Ac.	
38 the.	Mary Cart	

S.No	Propo	sed Period	Details of Topic Covered	TA	Ref.	
D. D	ate	Period	UNIT IV MEASUREMENT OF HIGH VOLTAGES AND HIG	H CUR	RENTE	Date a
28 281	alp	•	High Resistance with series ammeter	1	1	7733
29 29 1	9/2	5	Dividers, Resistance, Capacitance and Mixed dividers	1	1	28/9/2
30 7/10	122	. 3	Peak Voltmeter, Generating Voltmeters	3	1	29/9 8
31 /2/10	122	t	Capacitance Voltage Transformers	3	1	3/10/3
32 13/10	/22	5	Electrostatic Voltmeters	3	1	12/10
33 Us/(3	Sphere Gaps	3	1	
34 15/10	- 1)	High current shunts	3	1	
35 16/10		1	Digital techniques in high voltage measurement	3	1	
,			UNIT V HIGH VOLTAGE TESTING & INSULATION COOR	DINATI	ON	
36 110	,	7	High voltage testing of electrical power apparatus as per International and Indian standards	1	2	
37 18/10	,	3	Power frequency, impulse voltage	1		
18 22/tc		C	DC testing of Insulators, circuit breakers, bushing,		2	. 1
9 22/10		1	DC testing of isolators and transformers	1	_'2	
20/10		,	nsulation Coordination	1	2	• -
25/10			esting of cables	3	2	
				3	2	

Reference books (Ref):

- 1. C.L. Wadhwa, 'High voltage Engineering', New Age International Publishers, Third Edition, 2010.
- 2.. S.Naidu and V. Kamaraju, 'High Voltage Engineering', Tata McGraw Hill, Fifth Edition, 2013.

Teaching Aids (TA):

Sign:

Name

1. Black Board with Chalk

Prepared by

Mr. P.Sudarsan Faculty

2. LCD Projector

Dr.M.VIJAYAKUMAR ME., Ph.D.,

PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Verified by Vijayamangalam - 638 056 Jiruppk (Dt) Mr. P.Sudarsa Dr.E.Nandak HOD Princip-

Plead, Dept. of SEL





TEST PLAN FOR SUBJECT

Subject

: EE8701- HIGH VOLTAGE ENGINEERING

Laculty: Mr. P. Soular, 45

Semester

: VII

See. 15

Department: Electrical and Electronics Engineering

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
	Internal Fest-I	249.22	24.9,22	
2.		15.10.22		_
				1

	Prepared By	Approved By
Sign:	Sound	Mr.P.Shdarsar
Name:	Mr.P.Sudarsan	
	Faculty	Head, Dept. of the
		Considerate CT A CT F T T T T T

SCF/AMC 1.9

Rev 0.0

SASURIE College of Engineering

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,



Vijayamangalam - 638 056, Tirupur (Dt).



SASURIE College of Engineering

RESULT ANALYSIS OF TEST

Subject

: EE8701-HIGH VOLTAGE ENGINEERING

Date

Class

: IV

Department

1 1 1

Semester

: VII

Exam details & date

: Internal Exam-1

Faculty

: Mr.P.Sudarsan

Number of students

: 04

No. of students attended

: 03

No. of students absent

: 01

No. of students passed

: 02

No. of students failed

: 01

Percentage of failures

: 66.67%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	_	01	02	_	_

Prepared By

Sign:

Mr.P.Sudarsan

Faculty

Approved By

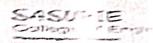
Mr.P.Sudarsan

HOD

Head, Dept. of EES

SASURIE
College of Engineering
Yijayarangalan-131034





CORRECTIVE ACTION REPORT

Degr

: Electical and Electronica Engineering

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: EE1701-HIGH VOLTAGE ENGINEERING

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SNo	Internal Test		Rant Cause (Metrics)	Citremia e Amilia	Dendin date
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	Automotive districts				

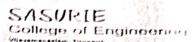
	Prepared By	Approvat B
Sign:	Mr.P.Sudarsan	Mr.P.Sair
Name:	Faculty	HOD

SASURIE College of Engineering

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

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QUALITY OBJECTIVE MONITORING RECORD

Department : Electrical and Electronics Engineering

Year

IV

Semester

: VII

Subject

: EE8701- HIGH VOLTAGE ENGINEERING

S.No Quality Objective		Internal Test-I		Internal Test-II		Model Test-L	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
		ar.					
	, =						

	Prepared By	Approved By
Sign:	Samuel	Samuel
Name:	Mr.P.Sudarsan	Mr.P.Sudarsan
	Faculty	HOD W



SASURIE College of Engli

Department of Electrical and Electronics Engineering ASSIGNMENT SCHEDULE

S.No	Particulars	Target Date
	alsologation at Lightping Storology	29.8.2022
1	Mechanism of Lightning Storties Mathonatical model of Lightning Protection against outwoltages	
2		
3		

deli alla di	Prepared by	Verified by
Sign	Mr.P.Stdarsan	Mr.P.Sudaban
Name		1101)
Was up	Faculty	Head, Dept. of CFE

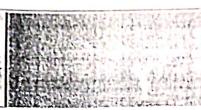
College of Engineering

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,









Register Number:

SASURIE College of Engineering

MAN STATE	F.1. 11	Internal test-	1	Date/Session	24.9.22	Mark	S B()	
Course cod	0.1	EE8701 4	Course Title	High voltage en	gineering			-
Regulation		2017	Duration	3 Hours	Academic	Year	2022-23	
Year		IV .	Semester	VII	Departmen	t	EEE	
COURSE	OUTC	OMES						
COI	Abi	lity to understand	Transients in power s	ystem.				
CO2:			Generation and meas		oltage			
<u>0</u> 3:	-		High voltage testing.					
CO4:			various types of over	voltages in power	system			
CO5:	.Ab	ility to measure ov	er voltages					
CO6:			apparatus and insulati	on coordination.				

Q.No.	Question	CO	BTS
10.	PART A		
To all the	(Answer all the Questions 10 x 2 = 20 Marks)	COI	R
1	List-out the practical generation voltage levels used?	COI	R
2	Whar are the applications of HVDC systems.	CO2	R
3	Define Lightning phenomenon		R
4	Mention the diffeent kinds of over voltages	CO4	R
5	How can the tower-footing resistance be varied?	CO4	
6	What is ionization?	CO5	R
7	Define Gas law	CO5	R
8	State paschen's law	CO6	R
	What are commercial liquids?	CO6	R
-	ame the various mechanism of breakdown in solid dielectrics?	CO6	R
10			<u> </u>
发展 2013	PART B (Answer all the Questions 2 x 15 = 30Marks)		A STATE
10000	Explain in detail the protection of power system equipments using protective devices.	CO5	C
112	OR		•
	Show the charge distribution patterens in the cloud following wilsonsand simpons	CO6	A
11b		1	
	theories.	COS	C
12a	Explain the phenomenon of corona discharge and breakdown mechanism in non		
	uniform fields.		
	OR	C06	C
12b	Explain in detail the breakdown mechanisms in solid dielectric with neat sketches		-

(Name /Sign / Date)

MT.P. BUDARBAN

HoD

(Name Gign / Date)

Mr.P. OUDARSAN

SASURIE COLLEGE OF ENDINEERING, Vijayanangalara - CSS CSS, Indigen (CI) SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

PRINCIPAL



SASURIE College of Engineering

Internal Assessment Test Answer Book

	-				
Name	S.AJith K	lurnau		Year/ Semester/Section	EEE
Register Number	732419105001	Date/Session	1 24 ' EU	Department age Englineemin	
Course code	FE8701	C00.00		IAT 3 Mode	el 📗
Internal Asses	sment Test nature of the Invigi			24/9/22 Granger 4.22	
					- 1

	Part			I	Part B/ Par	·t C		against question.
	1			1	а	1	b	Total Marks
Q. No.		Marks	Q. NO.		Marks		Marks	
1		2	11	~	4	_		4
2		2	12			_		
3		2	13			_		
4		2	14				-	
5		2	15					
6		2	16	,				,
7		2				G	rand Total	4
8	1	08					2	٨.
9	1	08		1-	8		P.SUD.	ARCAN
10	1	0.8					Name and	Signature
Total		14	Gra	nd T	otal	0	f the Exami	ner with date

To be filled by the examiner	5	6	Total
Course Outcomes 1 2 3 4	19	21	50
Marks allotted 4 2 - 4	8	_	18
Marks Obtained IQAC Audit - Remarks	2	K.Va	~1/h=
	2/	K·VI	~1/1/2
Marks revisited		Name and	Signature
Dr.M.VIJAYAI	KUMAR	METILHIO V	C member 1

SASURIE COLLEGE CHENSING THE PRINCIPAL

Vijayamangalam - 638 666(Eregel (24) OF LNGINGERING.

Vijayamangalam - 638 660, Tirepur (Ot)





DEPARTMENT OF ELECTRICAL AND FLECTRONICS ENGINEFRING

Assignment Question Paper

Name of the Student: S. Afdkkunut

AU Register Number: 732419105601

And the same of th	Amignment - #1		Date of Issue:	22.8 2012	Mark. 10
Contro code EEX.01	X,01	Centre Title	High whate enga	Meint	
J.621 17.		Semester Section	1771	Date of Submission	10 4 1033

Q.No	Questions	0.0
I	Explain in detail the Mechanism of lighting strokes.	CO2
2	Develop mathematical model for Lightning.	CO1
3	Explain in detail the protection of against over voltages.	CO5

Name and Signature of the Faculty Incharge

5. Sudharson

SASURE COLLEGE OF ENGINEERING. Vija, emangalam - 635 036, Tarupur (Dt).

Dr.M.VIJAYAKUMAR ME., Ph.D.,

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



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Answer Sheet

Name of the Student: S- Ajithkumar

AU Register Number: 7324:19105001

Č	`	Assignment – 01		Date of Issue:	22.0.2022	Marks 10
400	Course code	EE8701	Course Title	High voltage engir	Date of Submission:	29.8.2022
t	Year	IV	Semester/Section	VII	Date of Submission.	

Q.No	Questions	СО
1	Explain in detail the Mechanism of lighting strokes.	CO2
2	Develop mathematical model for Lightning.	CO4
3	Explain in detail the protection of against over voltages.	CO5

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	5
Presentation Quality	2	2
Timely submission	2	2
Total marks	10	9

Name and Signature of the Faculty Incharge

S. Sudhawan

SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dijayamangalam - 638 056, Tirupur (Dijayamangalam - 638 055, Tirupur (Di).