

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



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





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

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

Description S.No Contents - Course File 1 2 Time Table 3 Students Name List Subject Information Record 4 5 **Syllabus** 6 Lesson Plan Test Plan For Subject 7 8 Result Analysis of Test 9 Corrective Action Report 10 Quality Objective Monitoring Record 11 Assignment Schedule 12 Internal question paper 13 Internal assessment Test Answer book 14 Assignment Question Paper 15 Assignment Answer Sheet

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SASURIE College of Engineering ***** VII

Department	: REE			DISTRI BUTTON
Subject Code & Name	: EESADD	_ TRONSMISSION	NHD	
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1-	CONTENTS – COURSE FILE	REMARKS		
S.NO	PARTICULARS	REMARKS		
1	Time Table			
2	Student name list			
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4	Subject Information Record			
5	Syllabus			
6	Lesson Plan			
7	Test Plan for the Subject			
8	Result Analysis			
9	Corrective Action Report			
10	Quality objective monitoring record			
11	Internal test mark sheet(Consolidated)			
12	Internal test question paper with answer key			
13	Model question paper with answer key			
14	Slip test question paper with answer key			
15	Sample Answer paper for all test(Min-3)			
16	Content beyond the syllabus			
17	Tutorial Class – schedule and content			
18	Assignment – schedule and paper			
. 19	PPT - handout			
20	Video - Animation - Soft copy			
21	Question bank			
22	Sample university question papers(min 5 QP-recent e	exam)		
23	Personal Log book – Updated			
24	Lecture Note			
25	Special Class if any, Approval letter, Schedule, conten	t covered.		
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T. yun T. YUVARAJA Juni HD Faculty Heas Me of th ₹ Engineering Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, 11 432 856

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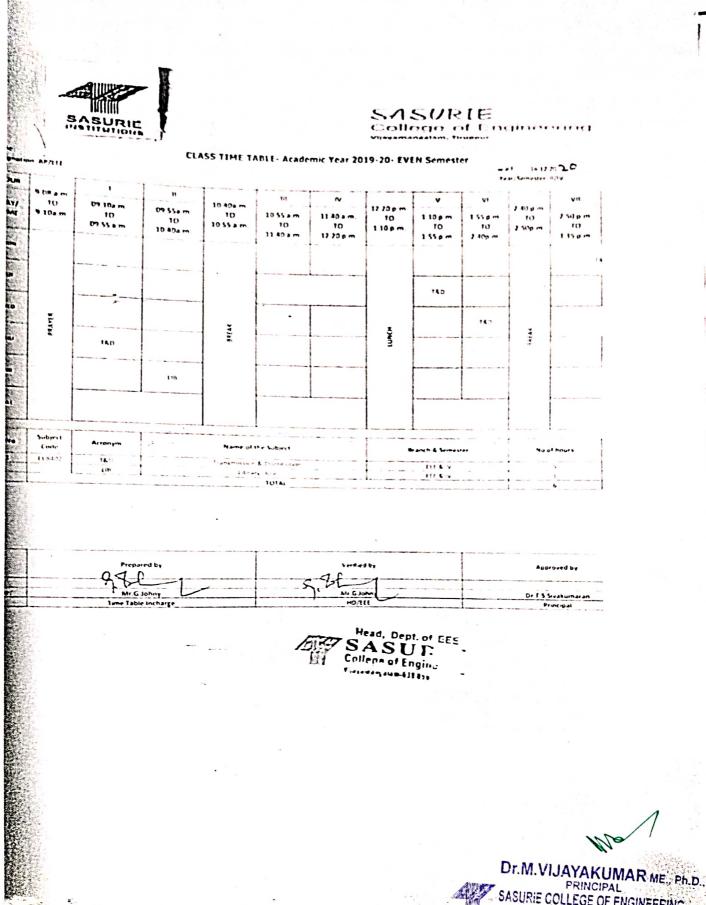
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TRANSHISSION AND DISTRIBUTION

SUBJECT INFORMATION RECORD

Department

EEE

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Subject

Year

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Semester

Last year handled by

: SIDEEPIKA

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Percentage of Result (last year)

Quality Objectives

Reference Book

: JD impart time unowledge on the pertormance of branimission lines. 2. The importance of distribution of the clertric power in Power system.

: 1. Anun ingole · Power transmission and oluitribution . R. B. R. crupta. · Power system Analysis and design .

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Sign:	T. yung	2/5-1
Name:	T. YUVARAJA	G. Sum 1
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E/AMC 1.8	Rev 0.0 01.01	Head, Dept. of EEE SASURIE College of Engineering Ur.M. VIJAYAKUMAR ME:, Ph.D. PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

TRANSMISSION AND DISTRIBUTION

OBJECTIVES:

EE8402

- To study the structure of electric power system and to develop expressions for the computation of transmission line parameters.
- To obtain the equivalent circuits for the transmission lines based on distance and to determine voltage regulation and efficiency.
- To understand the mechanical design of transmission lines and to analyze the voltage distribution in insulator strings to improve the efficiency
- To study the types, construction of cabilitys and methods to improve the efficiency
- To study about distribution systems, types of substations, methods of grounding, EHVAC, HVDC and FACTS.

UNIT I TRANSMISSION LINE PARAMETERS

Structure of Power System - Parameters of single and three phase transmission lines with single and double circuits -Resistance, inductance and capacitance of solid, stranded and bundled conductors. Symmetrical and unsymmetrical spacing and transposition - application of self and mutual GMD; skin and proximity effects -Typical configurations, conductor types and electrical parameters of EHV lines.

MODELLING AND PERFORMANCE OF TRANSMISSION LINES UNIT II Performance of Transmission lines - short line, medium line and long line - equivalent circuits, phasor diagram, attenuation constant, phase constant, surge impedance transmission efficiency and voltage regulation, real and reactive power flow in lines - Power Circle diagrams - Formation of Corona - Critical Voltages - Effect on Line Performance.

MECHANICAL DESIGN OF LINES Mechanical design of OH lines - Line Supports -Types of towers - Stress and Sag Calculation - Effects of Wind and Ice loading Insulators: Types, voltage distribution in insulator string, improvement of string efficiency, testing of insulators.

UNDER GROUND CABILITYS

Underground cabilitys - Types of cabilitys - Construction of single core and 3 core Cabilitys -Insulation Resistance – Potential Gradient - Capacitance of Single-core and 3 core cabilitys - Grading of cabilitys - Power factor and heating of cabilitys - DC cabilitys.

DISTRIBUTION SYSTEMS

Distribution Systems - General Aspects - Kelvin's Law - AC and DC distributions -Techniques of Voltage Control and Power factor improvement – Distribution Loss – Types of Substations -Methods of Grounding – Trends in Transmission and Distribution: EHVAC HVDC and FACTS (Qualitative treatment only). TOTAL: 45 PERIODS

OUTCOMES:

- To understand the importance and the functioning of transmission line parameters
- To understand the concepts of Lines and Insulators.
- To acquire knowledge on the performance of Transmission lines,
- To understand the importance of distribution of the electric power in power system.
- To acquire knowledge on Underground Cabilitys
- To become familiar with the function of different components used in Transmission
- and Distribution Invels of power system and modelling of these components Dr.M.VIJAYAKUMAR

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

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TEXT BOOKS:

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BOOKS: D.P.Kothari, I.J. Nagarath, 'Power System Engineering', Mc Graw-Hill Publishing Company limited. New Delhi, Second Edition, 2008.

- C L Wadhwa, 'Electrical Power Systems', New Academic Science Ltd, 2009 C L Wadhwa 'Electrical Power System, Transmission and Distribution', Prentice Hall S N. Singh 'Electric Power Generation, Transmission 2011 2
- of India Pvt. Ltd. New Delhi, Second Edition, 2011 3

REFERENCES

- R Gupta, 'Power System Analysis and Design' S. Chand, New Delhi, Fifth Edition, 2008. 1
- Distribution berry, Walter Coffer, 'Electrical and MTualken 2 Luces Transmission', Pearson Education, 2007.
- Arun Ingole, "power transmission and distribution" Pearson Education, 2017
- 3 J.Brian, Hardy and Colin R.Bayliss 'Transmission and Distribution in Electrical Engineering',
- 2 Newnes; Fourth Edition, 2012. G.Ramamurthy, "Handbook of Electrical power Distribution," Universities Press, 2013.
- 5
- V.K.Mehta, Rohit Mehta, 'Principles of power system', S. Chand & Company Ltd, New Dethi, 6 2013

Head, Dept. of EEE SASURIE College of Engineering Mayamangalan-636 050.





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Faculty Name Department

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Subject / Code The

TRANSMISSION AND DISTRIBUTION 41 Just

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

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

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TEST PLAN FOR SUBJECT

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Subject : TRANSMISSION AND Faculty: DISTRIGUTION

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Department : EEE

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RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

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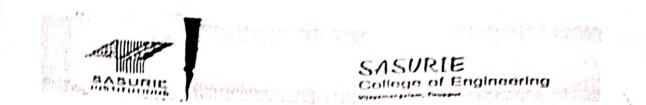
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SASURIE College of Engineering

RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

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QUALITY OBJECTIVE MONITORING RECORD Department : EEE

SASURIE

College of Engineering

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: TRANSMISSION AND DISTRIBUTION

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ASSIGNMENT SCHEDULE

SASURIE

College of Engineering

Subject :TRANSHISSION AND Faculty: DISTRIBUTION

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Department : EEE

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	Internal te	st-1	Date/Session		arks	50
Course coo	le EE8402	Course The	Transmission s	and Distribution		
Regulation		Duration	. 3 Hours	Academic Year	2020-21	
Year	11	Semester	- IV	Department	EEE	
COURSE	OUTCOMES					
CO1:	To understand the i	inportance and the fun	nctioning of transm	ission line parameters		
CO2:		oncepts of Lines and				
CO3:	To acquire knowled	ge on the performance	e of Transmission I	lines.		
-2).4:	To understand the in	mportance of distribut	ion of the electric p	power in power system	n	
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11a Discuss the expression for capacitance of three phase symmetrically and symmetrically CO3 spaced but completely transposed conductors.	
	C
OR	
11b Derive the expression for inductance of 3 phase double circuit line for hexagonal spacing CO2	_ <u>A</u>
12a Derive phasor diagram and explain the procedure for determining the transmission CO3	A
efficiency and voltage regulation of medium lines (use π and T method).	
12b Derive the expression for the real and reactive power flow through transmission lines COL	A
V. Polhunturan & Tut attan	
Course Faculty HoD Principal AKUMAF	R ME., PI
(Name /Sign / Date) (Name /Sign / Date) PHUNCIPAL (NAMYE AND LEGE OF ENGINE ON ANY AND	NEEDING
Vijayzmangalam - 638 Cto. Tirupur (Dti.	, ().

		Internal Assessme	nt Test Answer	Book	
Name	R. Jayap	nya		Year/ Semester/Section	II /11
Register Number	732418105002		3.2.20 FN		EEE
Course code	EE 8402	Course Tille		on and Distribu	
Internal Asses	sment Test	IAT 1		LAT 3 Mod	
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To be filled by the examiner Course Outcomes 1 2 3 4 5 6 Total Marks allotted 4 21 25 50 Marks Obtained 4 1-8 2 IQAC Audit - Remarks 20 42 Marks Verified

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL Dr.M.VIJAYAKUMAR ME., Ph.D., Dr.M.VIJAYAKUMAR ME., Ph.D., Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Vijayamangatam - 638 056. Timpur (Dt).





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Question paper

Name of the Student: R. Jaya PEila

AU Register Number: 7.32418105002

		Assignment - 01		Date of Issue:	121 2021		
100.00	Course code-	EE8402	Course Title	Transmission and	22.1.2021	Marks	10
T	Year	11	Semester/Section		Date of Submissio	n: 28.01.2	021

Q.No	Questions	CO	
1	.Capacitance of 3 phase asymmentrical spacing		
	Place asymmetrical spacing	COI	

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Name and Signature of the Faculty Incharge

T. YNVARAJA

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

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

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SASURIE Collegie of Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Answer Sheet

Name of the Student: R. JayapRiya

AU Register Number: 732418105002

1		Assignment - 01		Date of Issue:	22.1.2021	Marks	10
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Year		11	Semester/Section	IV	Date of Submissio	m: 28,01.20	

Q.No	Questions	СО
	Capacitance of 3 phase asymmetrical spacing	COI

Mark Allocation

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

T. yourf

Name and Signature of the Faculty Incharge

T. Yuvaray

G.N

HOD/EEE

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

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