

**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

### **Table of Contents**

S.No	Description
1	Contents - Course File
2	Class Time Table
3	Students Name List
4	Subject Information Record
5	Syllabus
6	Lesson Plan
7	Test Plan for Subject
8	Result Analysis of Test
9	Corrective Action
10	Quality Objective Monitoring Record
11	Test Question Paper
12	Test Answer Sheet
13	Assignment Question Paper
14	Assignment Answer Sheet



SASURIE

Departi	nem : ECE				
Class A	Batch To ECELSI - Transmission Li	uctems			
Semen	TE - 2019 - 2023	let a Ft 20-			
1000	CONTENTS - COURSE HUL				
SNO	PARTICILARS				
1	Time Table	RUAL VICES			
2	Student name list				
	Subject Information Record				
-	Syilabus				
5	Lesson Plan				
6	Test Plan for the Subject				
7	Result Analysis				
8	Corrective Action Report				
9	Quality objective monitoring record				
10	Internal test mark sheet(Consolidated)				
н	Internal test question paper				
12	Model question paper				
13	Sample Answer paper for all test(Mine				
14	Content beyond the syllabus				
15	Tutorial Class - schedule and content	Not copy			
16	Assignment - schedule and paper				
17	PPT - handout	Soll copy			
18	Video - Animation - Soft copy . Soft cop				
19	Question bank				
20	Sample university question paperstmin \$ QP-recent examy Soft copy				
21	Personal Log book - Updated				
12	Lecture Note	Sell & Contraction			
33	Special Class if any. Approval letter Schedule content				
23	covered				

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

Prepared By N. Siva Faculty

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Name.

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## SASURIE

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DAY 4				. 11.61						
DAY 5		ПКІ								

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N.X.	5.No	Subject Code	Acronym	Same of the Subject	Name of the Staff & Department	No of Sector
	1	EC8651	TLRF	Transmission Lines and RF Systems	MAM.GOKULNATH, APTCH	

Prepared By Verified By Authorized, By 1.57 4.1 Sign 11 Mr. I.MAMICKAM Dr.E.NANDAKI MAR Mrs.V.SUREGA Name HOD FECE Department Principal TIME TABLE DO **#**SASURIE

College of Engineering Visiterargatem Truppur-538 058

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



SASUPIL College of Liepton (1997)

#### Academic Year 2021 - 2022 LVI N Semister

#### STUDENTS NAME LIST

Department 1 lectronics and Communication Engineering Year/Sem III / VI

SL No	Register Number	Student's Name	11/17
1	732419106001	FEMLY S	D
2	732419106003	MOWNELSILN	D
3	732419106004	SARANYA DEVEV	D
4	732419106005	UMESH KUMAR S	D
5	732419106006	YOGLSH S	D
6	732419106301	KAVIYA PRIYA G	D
7	732419106302	VIVEK S M	Ð

SIGN	J. W.M.	13	
NAMI.	Mis.V.SURLGA	MET MANICE M	
	CLASS ADVISOR	нор	

Head of LCE Department TSASURIE College of Engineering Fultimingulan Truppur 618 054

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 055, Tirupur (Dt).



### SASURIE Loffrige of Engris

### SUBJECT INFORMATION RECORD

ECE Department EC 8651 - Transmission lines of RF systems Subject 111 Year 06 Semester Last year handled by

Percentage of Result (last year)

100%.

Quality Objectives

Stor. To produce more than. 90% in AU Exam.

1. John DRyder, - Networks, Lines and fields, and Edition, Reference Book Prentice hall India, 2015- É. 2-Mathew M. Rodmanech - Radio Grequency & Microwave Electromice. Peason Education Asia, Second Edition 2009

Apponed Bi Prepared By Mr. T. Namickam GT STO Sign 111 N. Siva Name Hood of ECE Department Laculty SASURIE College of Engineering Vijayamangalam Tiruppur-638 056 Dr.M. VIJAYAKUMAR ME., Ph.D., a line PRINCIPAL SASURIE COLLEGE OF ENGINEERING Vijayamangalam - 633 056, Tirupur (DI).

#### EC8651

### TRANSMISSION LINES AND RF SYSTEMS

#### LTPC 3003

#### **OBJECTIVES:**

To introduce the various types of transmission lines and its characteristics

- To give thorough understanding about high frequency line, power and impedance measurements

- To impart technical knowledge in impedance matching using smith chart
- To introduce passive filters and basic knowledge of active RF components
- . To get acquaintance with RF system transceiver design

### UNIT I TRANSMISSION LINE THEORY

General theory of Transmission lines - the transmission line - general solution - The infinite line Wavelength, velocity of propagation - Waveform distortion - the distortion-less line - Loading and different methods of loading - Line not terminated in Z0 - Reflection coefficient - calculation of current, voltage, power delivered and efficiency of transmission - Input and transfer impedance Open and short circuited lines - reflection factor and reflection loss

#### UNIT II HIGH FREQUENCY TRANSMISSION LINES

Transmission line equations at radio frequencies - Line of Zero dissipation - Voltage and current on the dissipation-less line, Standing Waves, Nodes, Standing Wave Ratio - Input impedance of the dissipation-less line - Open and short circuited lines - Power and impedance measurement on lines - Reflection losses - Measurement of VSWR and wavelength

#### UNIT III IMPEDANCE MATCHING IN HIGH FREQUENCY LINES

Impedance matching: Quarter wave transformer - Impedance matching by stubs - Single stub and double stub matching - Smith chart - Solutions of problems using Smith chart - Single and double stub matching using Smith chart. 9

### UNIT IV WAVEGUIDES

General Wave behavior along uniform guiding structures - Transverse Electromagnetic Waves. Transverse Magnetic Waves, Transverse Electric Waves - TM and TE Waves between parallel plates Field Equations in rectangular waveguides. TM and TE waves in rectangular waveguides. Bessel Functions, TM and TE waves in Circular waveguides. UNIT V RF SYSTEM DESIGN CONCEPTS

Active RF components: Semiconductor basics in RF, bipolar junction transistors, RF field effect transistors, High electron mobility transistors Basic concepts of RF design, Mixers, Low noise amplifiers, voltage control oscillators, Power amplifiers, transducer power gain and stability TOTAL:45 PERIODS considerations

### OUTCOMES:

Upon completion of the course, the student should be able to:

- Explain the characteristics of transmission lines and its losses Write about the standing wave ratio and input impedance in high frequency
- transmission lines Analyze impedance matching by stubs using smith charts
- Analyze the characteristics of TE and TM waves Design a RF transceiver system for wireless communication

1 John D Ryder, -- Networks, lines and fields]], 2nd Edition, Prentice Hall India, 2015 (UNIT IIV) 2. Mathew M. Radmanesh, -Radio Frequency & Microwave Electronics ||, Pearson Education

- Asia, Second Edition, 2002. (UNIT V)

1. Reinhold Ludwig and Powel Bretchko. || RF Circuit Design - Theory and Applications||

2. D. K. Misra, -Radio Frequency and Microwave Communication Circuits- Analysis and

3. E C Jordan and K.G. Balmain, -Electromagnetic Waves and Radiating Systems Prentice

4. G.S.N. Raju, "Electromagnetic Field Theory and Transmission Lines Pearson Education First edition 2005

> Herd of FCE Department 4 SHOURIE College of Engineering Tricobur. 638 054 VILAYAMA MALA"

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



### SASURIE

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Semisser/Year in / v-

Designat

MY.M. GORULNATH

ty Name ent Subject / Code mis Year

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ELECTRONICS AND COMMUNICATION ENGINEERING TRANSMISSION LINES AND RESYSTEMS / (CREST 2021 2022

5 No. Proposed Date Period			Details of Your Co				Actua	al	-	
-	Date	Pe	the second s		TA	Ref.	Date	Period	HOD	
1	1.000		UNIT-I TRANSMISSION LINE	THEORY		_				
	3/7/202		and a starting of Transmission lines	1.184	1	1	16/3/22	3	2	
2	3/8/202		The transmission line General solution	2 6 1	1	1	17/3/22	2	(	
1	3/9/202	2 1	The infinite ane Wavelength, velocity propagation		1	1	16/3/22	i	5	
4	3/10/202	2 0	Waveform distortion the distortion ters line		1	1	21/3/22	3	1	1
5	3/11/202	2 1	Loading and different methods of loading	1.202	1	1	22/3/22	5	14	1 12
6	3/12/202	2 111	Line not terminated in 20 Reflection coefficient		1	1	23/3/22	3	10	26/3
7	3/34/202	2 811	Calculation of current voltage, power deturned an efficiency of transmission	uð	1		24/3/22	2		
8	3/15/2022	v	Input and transfer impreance		1		25/3/22	,	1	
9	3/16/2022	10	Open and short circuited lines reflection factor and loss	d reflection.	1	21.2.1	26/3/22	2		
			UNIT-II HIGH FREQUENCY TRANSM	USSION LINES	5			-	)	
10	3/17/2022	0	Transmission line equations at radio frequencies		1	1	25/3/22	F	-	
11	3/18/2022	1	Line of zero dissipation		1		29/2/22	5 3	-)-	
2	3/21/2022	IN	Voltage and current on the dissipation less line		1	-				Street St.
3	3/22/2022	1 v	Standing waves, Nodes, Standing wave Ratio		1	-	32/3/22	2	6	
	3/23/2022	Bi	Input impedance of the dissipation less line		-		31/3/22			
					1	110	14/22	3		el
-	3/24/2022	н	Open and short circuited lines		1	1	4 4 122	2		1 314
-	3/25/2022	1	Power and impedance measurement on lines		1	1	5/4/22	3	1	
	3/26/2022	u	Reflection loss		1	1	3/4/22	2		
1	3/28/2022	v	Measurement of VSWR and Waselength		1	1	8/4/22	1		
			UNIT-III IMPEDANCE MATCHING IN HIGH	FREQUENCY	LINE	\$			$\smile$	
1	/29/2022		impedance matching		1	1	9/4/22	3	2	
1	130/2022		Quarter wave transformer		1	1	11/1/12	5		
1	31/2022	1	Impedance matching by stubs		1	1	naliten	3	-(-	
-					-	-	12/4/22		-7	11
	11/2022	10	Single stud matching		1	-	13/4/22	2		(c)
4/	11/2022	v	Double stub matching		1	1	25/192	1		10 291
4/3	2/2022	19	Smith chart	152	4	1	21/4/22	1		P REAL
471	3/2012		Solutions of problems using smith chart		4	1	27/4/22	Turner and		1
4/1	N/2022	1	Songle study matching using smith chart			1	and the second	Constanting of		
-		-		the second second	-	-	28/4/22	3	-1	
4/15	12023	M	boulde stuk matching using smith chars	The second	4	1	29/11/2	12	0	The state of the

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Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 656, Ompurificij,



### SASURIS (Accredited by NAAC, Under 21 and 128 starout)

Ref

TA

Designation Assistant Professor Semester/Year: 111/93

Actual

Period

Date

HOD

epartment object / Code cademic Year		EMF.M.GORULNATH ELECTRONICS AND COMMUNICATION ENGINEERING TRANSMISSION LINES AND RF SYSTEMS / EC8651 2021-2022				
	Pro	posed	Details of Topic Covered			
No	Date	Period				

	Propo	sed	Details of Topic Concrete		1	Access management			-
S.No	Date	Period	UNIT-IV WAVEGUIDES						1.
			DNITE WATER	1	1	In Islan	1,	12	-
28	4/20/2022	v	General wave behavior along uniform guiding structures	1	1	30/9/22		11	-10
29	4/21/2022	811	Transverse Electromagnetic waves	1	1	2/5/22	1		1
30	4/22/2022		Transverse magnetic waves	1	1	4/5/22	3	17	10
11	4/23/2022	1	Transverse Decine waves	1	1	6/5/22	5	11	fl .
32	4/25/2022	1	TM and TE waves between parallel plates	1	1	915/22	3	IT	r.
33	4/26/2022	10	Field equations in rectangular waveguides	1	1	10/5/22	2		121
34	4/27/2022	v	TM and TE waves in rectangular waveguides	1	1	11/5/22	1		
35	4/28/2022	ш	Bessel Functions	1	1	12/5/22	3		
36	4/29/2022	н	TM and TE waves in circular waveguides	1	1	12/5/22	5		
124	S		UNIT-V RF SYSTEM DESIGN CONCEPTS					9	
37	4/30/2022	1	Active BE Components: Semiclanducter basics in III	1	2	13(5/22	5	2	
м	5/2/2022	1	Bipolar junction transistors	1	2	14/5/22	3	(	
39	5/4/2022	ui	RF field effect transistors	1	2	24/5/22	2	T	12
40	5/5/2022	v	High electron mobility transistors	1	2	25/5/22	1	10.	1
41	\$/6/2022	in	Basic concepts of RF design.	1	2	25/5/22	3	TT	1
42	5/36/2022	a	Maters Low noise amplifiers	1	2	28/5/22	5	-	202
43	5/37/2022	1	Voltage control oscillators	. 1	2	25/5/22	3	1	1
44	5/18/2022	m	Power amplifiers	1	2	3015/22	2		
45	5/19/2022	V	Transducer power gain and stability considerations	1	2	30/5/22	11	1-	
				the state of the s					1

LESSON PLAN

Reference books (Ref):

1. John D Ryder, -Hetworks, lines and heids , 2nd Edition, Prentice Hall India, 2015. (UNIT LIV)

2 Mathew M. Radmanesh, -- Radio Frequency & Microwave Electronics , Pearson Education Asia

Second Edition 2007. (UNIT V)

#### Teaching Auds (TA):

I Black Board with Chalk

2 Overhead Projector

I IED Propertor

4 Others (Field vista, Charle, Fulses Models)

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Name M. & GOKLANATH	NA T MANUCKANA	- UN
Faculty	HOD	DI E NANDAKUMAN

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Head of ECE Department SASURIE College of Engineering

Dr.M. VIJAYAKUMAR ME., F. PRINCIPAL SASURIE COLLEGE OF ENGINEERINC, Vijayamangalam - 838 056, Tirupur (Dt).

Principal

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### **TEST PLAN FOR SUBJECT**

Subject	: EC 8651	- Transmission fines
		CPRF Systems
Semester	: 06	1.11

Department : ECE

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Internal Tect-I	22-04-22	23.04.22	
2.	Internal Test-II	20.05.22.	20.05.22.	
3,	Model Erzamination	14.06.22.	14.05.22.	
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#### **RESULT ANALYSIS OF TEST** Date : EC8651 - Transmission lines Subject oppi systems T.I.F 111 Class : 06 Semester Internal Test-J & DROW-23 Exam details & date Faculty :07 Number of students : 07 No. of students attended : Nil No. of students absent :07 No. of students passed State and Nil No. of students failed Percentage of failures

### RESULT DATA:

. Marks	0-25	26-50	51-75	76-90	91-100
	-	-	03	DA	-
No. of Students	Canto Santo	1	1	1	

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Sign:	onto
Name_	N. Sina
	Faculty

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Mr. T. Manickam

Head of ECE Department TSASURIE College of Engineering forsamengalum Trupper at the

> Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLECTION Vijayamangalam - 638 056, Tirupur (DU.

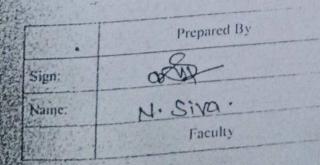


### **RESULT ANALYSIS OF TEST**

Subject : ECR651-Transn	mission Lines &	RF Date :	
Class <u>In</u>	-ysi	Department	ECE
Semester : 06.			
Exam details & date	Indeenal	Test-II	\$ 20.05.22.
Faculty	:		
Number of students	:07		
No. of students attended	:07		
No. of students absent	: NIL		
No. of students passed	: 07		
No. of students failed	Nil :		
Percentage of failures			

#### RESULT DATA:

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-	04	02	01
	-		- 04 02



Approved By

Mr. T. Manicham

Head of ECE Department TSASURIE College of Engineering Higtamangalam Tauppur 413 054

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



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### **RESULT ANALYSIS OF TEST**

1 Castlering

Subject : EC 8651 - Trans	mission lin	as & R.F. Date	1
Class <u>III</u>		Department	EC.
Semester : 0-6.			
Exam details & date	: Model	Exam	
Faculty	:		
Number of students	:07		
No. of students attended	: 07		
No. of students absent	: Nil		
No. of students passed .	: 07		
No. of students failed	: N:1		
Percentage of failures	: -		i

### **RESULT DATA:**

Marks	0-25	26-50	51-75	76-90 .	91-100
No. of Students	-	01	.06	-	

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	Sign:	and
S. S.	Name.	N-SIVA
		Faculty

Approved By

Mr.T. Mamikam.

111)

Head of ECE Department SASURIE College of Engineering flagmangalam Snuppur 65-054

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

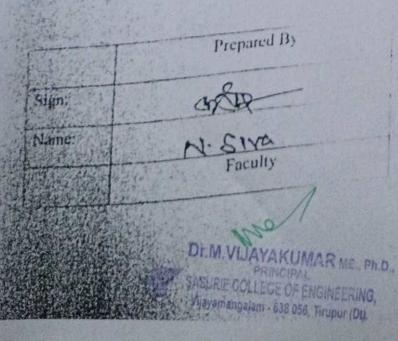


ASURIE COMPANY

### CORRECTIVE ACTION REPORT

Dept	ECF	TIL
Subject	ECEBSI- Transmission lines Semester	06,
	& RF.Systems	

5.5	o Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1.	I	100%	-	-	-	-
2.	T	100%	-	-	-	-
3	Model Exam	100%	- +		-	



Approved By

Mir. Hamicham. 111)

Head of ECt Department **T**SASURIE College of Engineering Optimingation Trupper-53, 055



### QUALITY OBJECTIVE MONITORING RECORD

Department : ECE

Year : 111

Semester : 06

subject : EC SELI - Transmission lines & RF Systems.

		Quality	Internal Test-I Quality		Internal	Test-II	Mindel Test-I	
in the second	S.No	Objective	Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
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		Approved By
The second	Prepared By	1 97-
Sign:	SP R	Mr. T. Marricham.
Name:	N-Siva	1111
	Faculty	ASASURIE College of Engineering
in Grand	These	College of English SJu 058 Alavamanaalam Turuppur 63u 058
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S. Dr.M.VIJAVARUMAR ME., Ph.D. SASUFIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

					Register Numbe	er:		
			SASURIE	1	SASU College Vijayamangalam,	of Engineering		
			Internal Te	st-II	Date/Session	20.05.2022 M	arks	50
Cour	rse		EC8651	Course Title	Transmission	Lines and RF S	ystems	
Regu	latio	on	2017	Duration	1.30 Hours	Academic Year	2021	1-2022
Year			ш	Semester	IV	Department	ECH	C
OUF	RSEC	DUTC	OMES					111
CO1:	•	To in	troduce the vari	ous types of transmissio	on lines and its charac	teristics		1
002:		Togi	ve thorough und	lerstanding about high f	requency line, power	and impedance measu	arements.	
:03:		To in	npart technical k	nowledge in impedance	e matching using smi	th chart.		
04:		To in	troduce passive	filters and basic knowle	dge of active RF con	nponents		S. Car
05:								
.05:		Toge	a acquamtance	with RF system transcei	ver design.			
No.				Qu	lestion		CO	BTS
	1	1		PA	RT A		1	
				(Answer all the Quest	$ions 10 \ge 2 = 20 M_{\odot}$	rke)		
1				while analyzing a trans			CO3	AN
2		ficient		o. Also express standing	g wave ratio in terms	of a reflection	CO3	R
3				inimum input impedanc	e of the dissipation le	ess line.	CO3	AP
4	A lo	ss less	line has a chara	acteristic impedance of 4	400 ohm. Determine	the standing wave ratio		E
22 C.	the second second		the second s	ance is 800 + j 0.0 ohm.				
5			rge impedance.	ninimum is measured ra	ther than voltage me	v immun 0	CO3	R
6 7			pplication of ha		aner man vonage ma	XIIIIIII!	CO4	R
8	N Frence Stre		n effect.	11 mile .			CO4 CO4	R
1				put impedance with ope	en circuited, short cir	cuited and matched	CO4	R
9	load	for di	ssipation less lin	ie.			1 Martin	Sec.
10	Defi	ne noo	le and anti node				£04	R
				PAN (Answer all the Question)	2T B ons 2 x 15 = 30 Mar	ks) Dr.M.VIJAYAKU PRINCIPA SASURIE COLLEGE OF Vijayamangalam - 638 0	ENGINEER	ING,

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Ha	Discuss the various parameters of open wire and co-axial line at radio frequency,	CO3 [	C
	OR		
11b	Derive the expression that permit easy measurement of power flow on a line of negligible losses.	CO3	C
12a	Discuss in detail about the voltage and current on the dissipation less line.	CO4	C
	OR	]	
2b	Discuss in details about the variation of input impedance along open and short circuit lines with relevant graphs.	CO4	C

**Course Faculty** 

(Name /Sign / Date) ん、Siva.

2022 HOD

(Name /Sign / Date) T. MANICKAM

Principal

(Name/Sign/Date) ( Dr. L. NANDAKUHA

WAYAKUMAR ME. PH.D. Dr.M. SASURIE COL LEGE OF ENGINEERING Vijayamangalam - 638 056. Tirupur (Dr).



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SASURIE College of Engineering

Internal Assessment Test Answer Book

Name	Kaviya pri	49. G1.	Year/ Semester/Se	ection DI/VI -
Register Number	73241910630/		20. 5 22 /PN Department	ECE
Course code	EC8651	Course Title	Transmission Lines and	RF systems.
Internal Asse	ssment Test	and the second s	IAT 2 / IAT 3	and the second se
Name and Sig	nature of the Invigi	lator with date	GRADEIN N.SIVA	

Part A				Р	art B/ Par	rt C			
O No	~	Marila	0.10	~	a	1	b	Total Mark	
Q. No.		Marks	Q. NO.		Marks		Marks		
1	1	2	11	1	15			15	
2	~	2	12	1	12h			12L	
3	5	11	13				and share		
4	5	2	14						
5	1	11	15	-					
6	1	2	16						
7	1	12				G	rand Total	27h	
8	1	2							
9	1	2					6	X	
10	1	12		45	h		50	NSIVA	
Total		18	1 2 2 1 1	and T		0	Name and f the Exami	Signature ner with date	

		To be f	illed by the	examiner			
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	100	-	25	25	-	-	50
Marks Obtained	-	-	24	212	-	-	45h
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SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



### **DEPARTMENT OF Electronics and Communication Engineering**

### Assignment Question Paper

	Assignme	nt – 01	Date of Issue:	16.03.2022	Marks	10
Course code	EC8651	Course Title	Transmission	Lines and RF Syst	ems	
Year	III	Semester	VI	Date of Submission:	25.03	2022

Q.No	Questions	CO
1	Explanation of secondary constants.	CO1
2	Determination of propagation constant.	CO1

22

Name and Signature of the Faculty Incharge

N.Sira.

HoD/ECE

(T.MANICKAM)

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



### **DEPARTMENT OF Electronics and Communication Engineering**

### Assignment Answer Sheet

Name of the Student: V. Saranya deul. AU Register Number: 732419106004

	Assignme	nt – 01	Date of Issue:	16.03.2022	Marks	10
Course code	EC8651	Course Title	Transmission	Lines and RF Syster	ns	
Year	ш	Semester	VI	Date of Submission:	25.03.	2022

Q.No	Questions	СО
1	Explanation of secondary constants.	CO1
2	Determination of propagation constant.	CO1

### Mark Allocation

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

63/22

Name and Signature of the Faculty In charge N.Siva.

HOD/ BCE (T. MANICKAM)

