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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

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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SASURIE
College of Engineering
Vijayamangalam, Tirupur

Department : EEE
Subject Code & Name : EE8402 – TRANSMISSION AND DISTRIBUTION
Class & Batch : II
Semester : IV

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	Prepared By	Approved By
Sign:	T. Yuvaraja	G. Jumi
Name:	T. YUVARAJA	G. Jumi
	Faculty	HD

Head, Dept. of EEE
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SASURIE INSTITUTIONS

SASURIE
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Vijayamangalam, Tirupur

CLASS TIME TABLE - Academic Year 2019-20- EVEN Semester

	9.00 a.m TO 9.10a.m	I 09.10a.m TO 09.55 a.m	II 09.55a.m TO 10.40a.m	10.40a.m TO 10.55 a.m	III 10.55 a.m TO 11.40 a.m	IV 11.40 a.m. TO 12.20 p.m	12.20 p.m TO 1.10 p.m	V 1.10 p.m TO 1.55 p.m	VI 1.55 p.m TO 2.40p.m	2.40 p.m TO 2.50p.m	VII 2.50 p.m TO 3.35 p.m
	PRAYER	T&D	LIB	BREAK			LUNCH	T&D	T&D	BREAK	

Subject Code	Acronym	Name of the Subject	Branch & Semester	No of hours
[illegible]	T&D	[illegible]	EEE & V	4
	LIB	[illegible]	EEE & V	2
		TOTAL		6

Prepared by	Verified by	Approved by
Mr.G.Johny	Mr.G.Johny	Dr.T.S.Sivakumaran
Time Table Incharge	HOD/EEE	Principal

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SASURIE
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Vijayamangalam, Tirupur

Department of Electrical & Electronics Engineering

Student's Name list

Year/Sem: II/IV

Dept:EEE

S.No.	Reg. No.	Name of the Student	Marks
1.	732418105002	R. JAYA PRIYA	

	Prepared By	Verified By
Sign		
Name	G. Mahaami	G.JOHNY
	CLASS ADVISOR	HD

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SUBJECT INFORMATION RECORD

Department	: EEE
Subject	: TRANSMISSION AND DISTRIBUTION
Year	: II
Semester	: IV
Last year handled by	: S. DEEPIKA
Percentage of Result (last year)	: 25%.
Quality Objectives	: To impart the knowledge on the perfoimance of transmission lines. 2. The importance of distribution of the electric power in power system.
Reference Book	: 1. Arun ingole 'Power transmission and distribution. 2. B. R. Gupta. 'Power system Analysis and design'.

	Prepared By	Approved By
Sign:	T. Yuv	
Name:	T. YUVARAJA	G. Shim
	Faculty	HD

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EE8402	TRANSMISSION AND DISTRIBUTION	L	T	P	C
		3	0	0	3

OBJECTIVES:

- 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 9

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.

UNIT II MODELLING AND PERFORMANCE OF TRANSMISSION LINES 9

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.

UNIT III MECHANICAL DESIGN OF LINES 9

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.

UNIT IV UNDER GROUND CABILITYS 9

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.

UNIT V DISTRIBUTION SYSTEMS 9

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 levels of power system and modelling of these components

TEXT BOOKS:

1. D.P Kothari, I.J Nagarath, 'Power System Engineering', Mc Graw-Hill Publishing Company limited. New Delhi, Second Edition, 2008.
2. C.L Wadhwa, 'Electrical Power Systems', New Academic Science Ltd, 2009
3. S.N Singh 'Electric Power Generation, Transmission and Distribution', Prentice Hall of India Pvt. Ltd. New Delhi, Second Edition, 2011

REFERENCES

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

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SASURIE
COLLEGE OF ENGINEERING

LESSON PLAN

Faculty Name : Y. POTHUMANI
Department : EEE
Subject / Code : TRANSMISSION AND DISTRIBUTION EE3401
Academic Year : 2020-2021
Semester / Year : IV / II

S.No.	Proposed Date	Period	Details of Topic Covered	TA	Ref.	Actual Date	Actual Period	HOD
			UNIT I TRANSMISSION LINE PARAMETERS					
1	16.12.2020	7	Structure of electric power system	1	1:1...	16/12	7	
2	16.12.2020	8	Parameters of single and three phase transmission lines with single and double circuits	1	1:1...	16/12	8	
3	17.12.2020	5	Resistance, inductance and capacitance of solid, stranded and bundled conductors	1	1:1...	17/12	5	
4	18.12.20	6	Typical configuration, conductor types	1	1:1...	18/12	6	
5	19.12.20	1	Symmetrical and unsymmetrical spacing and transposition	1	1:1...	19/12	1	
6	23.12.20	7	Application of self and mutual GMD	1	1:1...	23/12	7	
7	23.12.20	8	Skin and proximity effects	1	1:1...	23/12	8	
8	24.12.20	7	Effects of earth on the capacitance of the transmission line	1	1:1...	24/12	7	
9	26.12.20	7	Interference with neighboring communication circuits.	1	1:1...	26/12	7	
			UNIT II-MODELLING AND PERFORMANCE OF TRANSMISSION LINES					
10	30.12.20	7	Performance of Transmission lines - short line, medium line and long line	1	2	30.12	7	
11	30.12.20	8	Equivalent circuits, phasor diagram	1	2	30.12	8	
12	31.12.20	5	Attenuation constant, phase constant, surge impedance	1	2	31.12	5	
13	6.1.21	7	transmission efficiency and voltage regulation	1	2	6.1	7	
14	6.1.21	8	Real and reactive power flow in lines	1	2	6.1	8	
15	7.1.21	5	Power Circle diagrams	1	2	7.1	5	
16.	8.1.21	6	Ferranti effect	1	2	8.1	6	
17.	13.1.21	7	Generation of Corona	1	2	13.1	7	
18.	13.1.21	8	Critical Voltages - Effect on line Performance	1	2	13.1	8	
			UNIT III-SAG CALCULATION AND LINE SUPPORTS					
19	20.1.21	5	Mechanical design of overhead lines	1	2	20.1	3	
20	20.1.21	3	Line Supports	1	1	20.1	7	
21	20.1.21	7	Types of Towers	1	1	21.1	8	
22	21.1.21	8	Sag and Tension Calculations	1	1	21.1	8	
23	21.1.21	5	Effect of wind and ice conditions	1	1	21.1	5	
24	22.1.21	3	Effects of ground slope	1	1	22.1	3	
25	22.1.21	7	Insulators: Types, voltage distribution in insulator strings	1	1	22.1	7	

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SASURIE

Faculty Name : VADIVUKARASI
Department : EEE
Subject Code : EE8601
Academic Year : 2019-2020

LESSON PLAN

Semester/Year : IV / II

TRANSMISSION AND DISTRIBUTION ELEMENTS

S.No	Proposed Date	Period	Details of Topic Covered	TA	Ref	Actual Date	Actual Period	HOD
			UNIT IV UNDERGROUND CABLES					
26	27.1.20	3	Underground Cables	1	1	27.1.20	3	
27	27.1.20	7	Types of Cables	1	1	27.1.20	7	
28	29.1.20	8	Construction of Cables	1	1	29.1.20	8	
29	3.2.20	5	Cable Resistance	1	1	3.2.20	5	
30	4.2.20	3	Potential Gradient	1	1	4.2.20	3	
31	10.2.20	7	Capacitance of single core and 3 core belted cables	1	1	10.2.20	7	
32	12.2.20	8	Grading of cables Power factor and heating of cables	1	1	12.2.20	8	
33	12.2.20	5	DC Cable	1	1	12.2.20	5	
			UNIT V DISTRIBUTION SYSTEMS					
34	17.2.20	7	Distribution Systems	1	1	17.2.20	7	
35	17.2	8	General Aspects-Kelvin's Law	1	1	17.2.20	2	
36	18.2	5	AC and DC distributions	1	1	18.2.20	3	
37	18.2	3	Concentrated and Distributed loading	1	1	18.2.20	3	
38	19.2	2	Techniques of Voltage Control and Power Factor improvement	1	1	19.2.20	2	
39	24.2	7	Distribution Loss	1	1	24.2.20	7	
40	25.2	8	Types of Substations	1	1	25.2.20	8	
41	26.2	5	Trends in Transmission and Distribution-EHVAC, HVDC and FACTS (Qualitative treatment only)	1	1	26.2.	5	

Reference Books/Refs:

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

Teaching Aids Used:

1. Power point with Charts
2. Overhead Projector
3. LCD Projector
4. Others (Lab Visits, Charts, Circuit Models)

	Prepared by	Verified by	Authorized by
Sign	T. Yuvaraja	[signature]	[signature]
Name	T.YUVARAJA	M.GOPIKRISHNA	Dr.T.SIVAKUMAR
Date		HOD	Principal

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TEST PLAN FOR SUBJECT

Subject : TRANSMISSION AND DISTRIBUTION Faculty :

Semester : IV Year: II

Department : EEE

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	IAT - 1	03-02-2021	03-02-2021	—
2.	IAT - 2	27.2.2021	27.2.2021	—

	Prepared By	Approved By
Sign:	T. Yuvaraja	
Name:	T. YUVARAJA	
	Faculty	HD

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SCE/AMC 1.9

Rev 0.0 01.01.2015

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SASURIE College of Engineering

RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : TRANSMISSION AND DISTRIBUTION Date :

Class : III Department : EEE

Semester : V

Exam details & date : UM - I / 04 - 09 - 2021

Faculty :

Number of students : 01

No. of students attended : 01

No. of students absent : -

No. of students passed : 01

No. of students failed : -

Percentage of failures : -

RESULT DATA:

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

	Prepared By	Approved By
Sign:	T. Yesudhas	
Name:	T. YESUDHAS	G. Vijayakumar
	Faculty	HD

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SASURIE INSTITUTION

SASURIE
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CORRECTIVE ACTION PLAN REPORT

Dept. : EEE Year : II

Subject : TRANSMISSION AND DISTRIBUTION Semester : IV

NON CONFORMANCE REPORT

Expected result is 100 %. Achieved 50 result is 100 %.

DATE : Faculty Sign

ROOT CAUSE ANALYSIS

—

DATE : Faculty Sign

CORRECTIVE ACTION

—

DATE : Faculty Sign

VERIFICATION OF CORRECTIVE ACTION

DATE : HD Sign

	Prepared By	Approved By
Sign:	T. Yuvaraj	
Name:	T. YUVARAJA	
	Faculty	HD

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RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : TRANSMISSION AND DISTRIBUTION Date :

Class : II

Department : EEE

Semester : IV

Exam details & date : IAT-II / 27.2.2021

Faculty :

Number of students : 101

No. of students attended : 01

No. of students absent : —

No. of students passed : 01

No. of students failed : —

Percentage of failures : -

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	—	—	—	1	—

	Prepared By	Approved By
Sign:	T. Yuvaraja	
Name:	T. YUVARAJA	
	Faculty	HD

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CORRECTIVE ACTION PLAN REPORT

Dept. : EEE Year : II

Subject : TRANSMISSION AND DISTRIBUTION Semester : IV

NON CONFORMANCE REPORT DATE : Faculty Sign
ROOT CAUSE ANALYSIS DATE : Faculty Sign
CORRECTIVE ACTION DATE : Faculty Sign
VERIFICATION OF CORRECTIVE ACTION DATE : HD Sign

	Prepared By	Approved By
Sign:	T. Yuva	
Name:	T. YUVARAJA	
	Faculty	HD

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SASURIE College of Engineering

RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : TRANSMISSION AND DISTRIBUTION Date :

Class : II Department : E EE

Semester : IV

Exam details & date :

Faculty :

Number of students :

No. of students attended :

No. of students absent :

No. of students passed :

No. of students failed :

Percentage of failures :

RESULT DATA:

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

	Prepared By	Approved By
Sign:	T-Yuva	
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SASURIE
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CORRECTIVE ACTION PLAN REPORT

Year : II

Dept. : EEE

Subject : TRANSMISSION AND DISTRIBUTION Semester : IV

NON CONFORMANCE REPORT DATE : Faculty Sign
ROOT CAUSE ANALYSIS DATE : Faculty Sign
CORRECTIVE ACTION DATE : Faculty Sign
VERIFICATION OF CORRECTIVE ACTION DATE : HD Sign

	Prepared By	Approved By
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Name:	T. YUVARAJA	
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QUALITY OBJECTIVE MONITORING RECORD

Department : EEE

Year : II

Semester : IV

Subject : TRANSMISSION AND DISTRIBUTION

S.No	Quality Objective	Internal Test-I		Internal Test-II		Internal Test-III	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1.	100 %	100 %	100 %				

	Prepared By	Approved By
Sign:	T. Yuvaraja	G. Johny
Name:	T. YUVARAJA	G. Johny
	Faculty	HD

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ASSIGNMENT SCHEDULE

Subject : TRANSMISSION AND DISTRIBUTION Faculty :

Semester : IV Year: II

Department : EEE

S. No.	Description Planned Date/Month	Actual Date / Month	Submission Date / Month
1.	Capacitance of three phase asymmetrical spacing	28-01-2021	28-01-2021

	Prepared By	Approved By
Sign:	T. Yuvaraja	
Name:	T. YUVA RAJA	
	Faculty	HD

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Register Number:

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Vijayamangalam, Tirupur.

Internal test-1			Date/Session	3.02.2020	Marks	50
Course code	EE8402	Course Title	Transmission and Distribution			
Regulation	2017	Duration	3 Hours	Academic Year	2020-21	
Year	II	Semester	IV	Department	E.E.E	

COURSE OUTCOMES

CO1:	To understand the importance and the functioning of transmission line parameters
CO2:	To understand the concepts of Lines and Insulators.
CO3:	To acquire knowledge on the performance of Transmission lines.
CO4:	To understand the importance of distribution of the electric power in power system
CO5:	To acquire knowledge on Underground Cables
CO6:	To become familiar with the function of different components used in Transmission and Distribution levels of power system and modeling of these components.

Q.No.	Question	CO	BT
	PART A		
	(Answer all the Questions 10 x 2 = 20 Marks)		
1	Give an expression for the Inductance per phase of three phase overhead line in which conductors are symmetrically placed?	CO1	R
2	Distinguish between stranded and bundled conductors.	CO1	R
3	Draw the diagram of a double circuit 3 phase transmission line?	CO2	R
4	Briefly explain ACSR	CO2	R
5	Define the term critical disruptive voltage	CO2	R
6	Draw the phasor representation of short transmission line	CO3	R
7	What is the difference between nominal T and nominal π method	CO3	R
8	Draw the Equivalent circuit long transmission line	CO3	R
9	Draw the power angle diagram of trnamission line	CO3	R
10	rite the expression for power flow equation	CO3	R
	PART B		
	(Answer all the Questions 2 x 15 = 30Marks)		
11a	Discuss the expression for capacitance of three phase symmetrically and symmetrically spaced but completely transposed conductors.	CO3	C
	OR		
11b	Derive the expression for inductance of 3 phase double circuit line for hexagonal spacing	CO2	A
12a	Derive phasor diagram and explain the procedure for determining the transmission efficiency and voltage regulation of medium lines(use π and T method).	CO3	A
	OR		
12b	Derive the expression for the real and reactive power flow through transmission lines	CO2	A

V. Pothumani 2/2/20

S. [illegible] 2/2/20

Course Faculty (Name /Sign / Date) Mrs. V. POTHUMANI

HoD (Name /Sign / Date) Mr. G. Johnny

Principal (Name /Sign / Date)

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Internal Assessment Test Answer Book

Name	R. Jayapriya			Year/ Semester/Section	II / IV
Register Number	732418105002	Date/Session	3.2.20 FN	Department	EEE
Course code	EE8402	Course Title	Transmission and Distribution		
Internal Assessment Test	IAT 1 ☑	IAT 2 ☐	IAT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date	N. Venkatesh 3/2/20				

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 Marks	✓	b Marks		
1	✓	2	11	✓	11				11
2	✓	2	12	✓	12				12
3	✓	2	13						
4	✓	2	14						
5	✓	2	15						
6	✓	2	16						
7	✓	2					Grand Total		23
8	✓	2	42				V. Pothumani 3/2/20		
9	✓	2							
10	✓	1							
Total		19	Grand Total				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	4	21	25	—	—	—	50
Marks Obtained	4	18	20	—	—	—	42

IQAC Audit - Remarks

Marks Verified

Name and Signature of the IQAC

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Question paper

Name of the Student: R. JayaRRiva

AU Register Number: 732418105002

Assignment – 01			Date of Issue:	22.1.2021	Marks	10
Course code-Year	EE8402 / II	Course Title / Semester/Section	Transmission and Distribution / IV		Date of Submission:	28.01.2021

Q.No	Questions	CO
1	.Capacitance of 3 phase asymmentrical spacing	CO1

T. Yamf

Name and Signature of the Faculty Incharge

T. YUVARAJA

HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Assignment Answer Sheet

Name of the Student: R. Jayapriya

AU Register Number: 732418105002

Assignment – 01			Date of Issue:	22.1.2021	Marks	10
Course code	EE8402	Course Title	Transmission and Distribution			
Year	II	Semester/Section	IV	Date of Submission:	28.01.2021	

Q.No	Questions	CO
1	Capacitance of 3 phase asymmentrical spacing	CO1

Mark Allocation

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

T. Yuvaraj

Name and Signature of the Faculty Incharge

T. Yuvaraj

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