ROHINI
COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE and Affiliated to Anna University, (An ISO Certified Institution)

Near Anjugramam Junction, Kanyakumari Main Road, Palkulam, Variyoor Post,
Kanyakumari District - 629 401. Tel: 04652 - 266665 | Mob : 9894218888
Email: admin@rcet.org.in Website: www.rcet.org.in

PERSONAL LOG BOOK

Name of the Staff : Dr. N. AMUTHA PRIYA, ME., MBA., PH.D.,

Course Code / Title : EE3401 - TRANSMISSION AND DISTRIBUTION

Class / Branch : II BE EEE

Year / Semester : II / IV

Name of the Faculties : 1) _____

: 2) _____

Academic Year : 2023 - 2024 Total No. of Students : 59

Course Starting Date : 28-02-2024 Ending Date : 14-06-2024

Faculty In-charge HOD Principal

SUBMISSION & ACADEMIC REVIEW

Week No.	Date	Staff Signature	HOD Signature	Principal Signature
1	04-03-24			
2	13-03-24			
3	18-03-24			
4	25-03-24			
5	1-04-24			
6	8-04-24			
7	15-04-24			
8	22-04-24			
9	29-04-24			
10	06-05-24			
11	13-05-24			
12	20-05-24			
13	27-05-24			
14	03-06-24			
15	10-06-24 14-06-24			

Faculty In-charge | HOD | Principal

GUIDELINES TO FACULTY

1. Members of the Faculty and staff should be available in their respective class/ cabin / workshop from 9.15A.M to 4.40 P.M.

2. **Preparation of Lesson Plan and Lesson Schedule:** The Faculty may rearrange units of the syllabus, if necessary, for better and effective understanding of the students, prepares a well contemplated lesson plan clearly indicate the topics and portions to be covered class wise on the specified dates in the prescribed format available in the logbook issued. The lesson schedule shows the topics of the portion covered in every class.

3. It is very important to prepare weekly portions for Continuous Assessment Tests (CAT) clearly and the same should be completed within the specified week and never to be postponed, even if the staff member have to go on leave or absent due to unavoidable circumstances or due to unexpected holidays. In such cases, extra classes must be handled to complete the specified CAT portions. HODs will monitor and report non-conformities, if any, in the prescribed format to the Principal every first working day of the week.

4. **Lesson Notes / Course File:** A well written lesson notes must be handed over to the Principal through HOD atleast one week before the first working day of the semester. In case of members of the faculty teaching the same course again or using the lesson notes prepared by others, additions / changes and improvements have to be submitted for the corresponding lecture notes. Detailed work sheets (one per week) containing problems and cases with solutions to conduct tutorial sessions are also required to be included in the lecture notes. The faculty-student ratio for the tutorial class is 1:30.

5. **ICT Enabled Teaching and Learning:** Wherever necessary, lecture sessions should have PPT for clear visible and vivid expression of difficult parts of the lecture topics. The slides may be numbered unit wise for easy access and a hardcopy of this should be kept in the course file. Similarly, other teaching aids like models, charts and sketches are to be used and the list should be kept unit wise in the course file.

6. To augment more knowledge in the subject and for good career planning, experts from industry and academics are invited as per academic calendar to deliver special lecture programs, in consultation with HOD and approval by the Principal. Prior approval from the management for expenditure involved is mandatory.

7. **Preparation of Question Paper for Internal Assessment Tests and examinations in the form of Question Bank:**

The faculty shall prepare Type -1, Type - 2 and Type - 3 questions for Part -A (2 marks), Part -B (13 marks) as well as Part - C (15 marks). Easier questions should typically appear closer to the beginning of the section while harder questions are towards the end in each section.

8.Continuous Assessment Tests [CAT] :

i. Continuous Assessment Tests start from the 2nd week of reopening of the college in a semester. The CAT portions available in the course file must be handed over to the students, HOD, Principal and Examination Cell during the beginning of the semester. Non-conformities are to be communicated to all in the prescribed format before each test.

ii. Continuous Assessment Tests are conducted in the 1st period on each day and the answer paper scripts valued within 2 days are to be handed over to the HOD along with mark statements.

iii. Continuous Assessment Test question papers should be framed with Type -1, Type -2, Type -3. Refer Annexure - 1 for the pattern of Continuous Assessment Test question paper.

iv. Students who have either failed or absent for Continuous Assessment Test(s) will be treated as Slow Learners and they have to attend the special coaching classes scheduled which is prepared by the faculty concerned in consultation with the HOD and approval by the Principal.

v. A student who is absent or failed in the Continuous Assessment Test(s) should appear for the substitute CAT(s). The substitute CAT(s) will be held on the immediate Saturday in two sessions of one hour each. At a time, a student can take up two test(s) and in case the student who was absent for three CATs he/she will skip one test. Such incidents have to be brought to the notice of the Principal, the next day itself. Any student desirous of improving his/her performance can also attend these substitute CATs. Separate question papers will be prepared for these substitute CATs by the respective faculty.

9. Internal Assessment Test [IAT] :

i. Three Internal Assessment Tests [IAT] should be conducted in a semester, IAT-1 after the second CAT covering 1.5 units of the portions in the syllabus, IAT-2 after the fourth CAT again covering 1.5 units from the balance and IAT-3 after the sixth CAT covering rest of the portions. The Internal Assessment Tests are conducted from 2.20 P.M. to 3.50 P.M. HODs should send Internal Assessment Test Notification Circular Request along with the test schedule to the Principal at least one week before the scheduled date of conduct of Internal Assessment Tests. Refer Annexure - 2 for the Internal Assessment Test pattern of questions.

ii. Students write Internal Assessment Tests in bound notebooks. Each subject / course has separate note book.

iii. Internal Assessment Test answers are to be valued within 2 working days after the respective test and the mark statements should be handed over to the Principal through HODs.

iv. Parents of each ward should be intimated about the following in the prescribed format, by post within 6 working days after the Internal Assessment Test.

a. Marks secured in the Internal Assessment Test as well as Continuous Assessment Tests

b. Subject-wise monthly attendance.

10. Semester End Coaching:

Immediately after the third internal assessment tests, the slow learners are given intensive coaching for atleast one week. They are counselled for effective learning and good preparation. The course-wise / subject-wise list of slow learners is identified in the Department meeting.

11. Model Examinations:

At the end of the semester and after adequate preparatory work by both the students and staff, model examinations are scheduled for each subject. Theory model examinations and practical model examinations should be conducted before the last working day of the semester. The schedule for the model examination theory and Practical along with question paper / viva voce questions should be submitted to the Principal through concerned HOD one week before the commencement of the schedule.

12. Assignment: Each student is given separate note book for writing assignment. A faculty must design the total assignment work, worth of 6 hours of intensive study each so that it is approximately 60 hours of both study and writing per semester.

13. Motivated Study / Work Project Book:

A student can choose a project work or motivated study on any current and emerging area in the subject and work on the same with constant interaction with the faculty members concerned for a worthy practical model which will have a high quality. The work should be more than hours equivalent of study.

The faculty member should assist the student in all possible ways. The completed project work with neatly written must be reported to the Principal along with the prototype.

14. Mobile Phones: Don't bring mobile phone inside the class room.

OBSERVATION OF STUDENTS DISCIPLINE

1. All students must observe the top order of discipline and decorum inside and outside the college.
2. They have to remember that any act of indiscipline will bring discredit to themselves and bring down reputation of the college. Any act of indiscipline must be reported to the Principal immediately.
3. Use of mobile phones inside the class rooms by students is banned. In case a student is found using mobile phone the matter should be reported to the HOD immediately, after seizure of the phone and obtaining a statement from the student.
4. If a student is found indulging in malpractice such as copying from some manuscript or from a neighbour, helping or receiving help from any other candidate or keeping with him the material connected with the examination, the same is to be reported to the HOD immediately.
5. It is mandatory that all students write Continuous Assessment Tests every day.
6. Students must strictly adhere to dress code, i.e. prescribed uniform, shoes and the ID card hanging around the neck, on all days (except Wednesday & Saturday).

ANNEXURE - 1: Question pattern for Continuous Assessment Tests

S.No	Range of Questions		Type of Questions	Marks per Question	Number of Questions in the QP	Number of Questions be Answered
1	Part - A	Two Marks Question	Type - 1	2	2	5
2		Two Marks Question	Type - 2	2	2	
3		Two Marks Question	Type - 3	2	1	
4	Part - B	Long Answer Question	Type - 1	15	11	1
				TOTAL	11	11

ANNEXURE - 2: Question pattern for Internal Assessment Tests

S. No	Range of Questions		Type of Questions	Marks per Question	Number of Questions in the QP	Number of Questions be Answered
1	Part - A	Two Marks Question	Type - 1	2	4	⑩ Unit - 1 - 4 Qn Unit - 2 - 4 Qn Unit - 3 - 2 Qn
2		Two Marks Question	Type - 2	2	4	
3		Two Marks Question	Type - 3	1	2	
4	Part - B	Long Answer Question	Type - 1	16	2	⑤ Unit - 1 - 2 Qn Unit - 2 - 2 Qn Unit - 3 - 1 Qn
5		Long Answer Question	Type - 2	16	2	
6		Long Answer Question	Type - 3	16	1	
				TOTAL	15	20

NOTE : Type-1 (Remembering), Type-2 (Understanding), Type-3 (Analysis / Evaluation / Creative Skills)

COURSE PLANNER

Activity	Proposed	Actual	As per schedule / 80% and above pass (*)	Moderately late from the schedule / 70 – 80% pass (*)	Very much late from the schedule / 50–70% pass (*)
	Date of Action /Submission				
1st course committee meeting	28/2/24	28/2/24	✓		
Issue of syllabus copy, course plan & Question Bank with Answers to students	28/2/24	28/2/24	✓	–	–
Evaluation of 1st Continuous Assessment Test answer papers (CAT1)	19/3/24	19/3/24	✓	–	–
Evaluation of 2nd Continuous Assessment Test answer papers (CAT2)	02/04/24	02/04/24	✓	–	–
Evaluation of 1st Internal Assessment Test answer booklets	22/4/24	22/4/24	✓	–	–
2nd course committee meeting	22/4/24	22/4/24	✓	–	–
Preparation of slow learners' list and start of coaching classes	19/3/24	19/3/24	✓	–	–
Evaluation of 3rd Continuous Assessment Test answer papers (CAT3)	10/04/24	10/4/24	✓	–	–
2 Hour seminar related to content beyond the syllabus	15/5/24 27/5/24	14/5/24 22/5/24	✓ ✓	–	–
Evaluation of 4th Continuous Assessment Test answer papers (CAT4)	8/5/24	8/5/24	✓	–	–
Mid semester feedback	–	–	–	–	–
Evaluation of 2nd Internal Assessment Test answer booklets	29/5/24	29/5/24	✓	–	–
3rd course committee meeting	11/6/24	11/6/24	✓	–	–
Evaluation of 5th Continuous Assessment Test answer papers (CAT5)	17/5/24	17/5/24	✓	–	–
Evaluation of 6th Continuous Assessment Test answer papers (CAT6)	–	–	–	–	–
Industrial Visit related to subject	–	–	–	–	–
End semester feedback	13/6/24	13/6/24	✓	–	–
Special coaching classes for slow learners	11/6/24 12/6/24	11/6/24 12/6/24	✓ ✓	–	–
Model Exam	–	–	–	–	–
No. of ticks			N1 = 17	N2 =	N3 =
Z(Z1=N1x5; Z2=N2x3; Z3=N3x1)			Z1 = 85	Z2 =	Z3 =
Transaction Index = $\frac{Z1+Z2+Z3}{\text{No. of activities}}$			5	–	–

*Put tick inside

Course Code	EE3401	Course Title	Transmission and Distribution
Course Component	CORE / ~~ELECTIVE~~		
Contact Hours / Week	Lecture 3	Tutorial 0	Practical 0	Credit 3
Prerequisites of the Course	Basic Electrical Engineering Electrical Machines I		

Week No.	Period		Actual No. of theory classes assigned	Actual No. of theory classes engaged	Actual No. of tutorial classes engaged	Initial		
	From	To				Staff	HOD	Principal
1	28/2/24	01/3/24	3	3	–			
2	4/3/24	7/3/24	4	7	–			
3	13/3/24	16/3/24	2	4	–			
4	18/3/24	23/3/24	4	6	–			
5	25/3/24	28/3/24	4	2	–			
6	1/4/24	6/4/24	5	5	–			
7	8/4/24	13/4/24	5	3	–			
8	15/4/24	18/4/24	8	8	–			
9	22/4/24	27/4/24	1	1	–			
10	29/4/24	3/5/24	1	1	–			
11	6/5/24	10/5/24	5	6	–			
12	13/5/24	17/5/24	5	6	–			
13	20/5/24	24/5/24	6	6	–			
14	27/5/24	31/5/24	8	8	–			
15	3/6/24	7/6/24	–	–	–			
16	10/6/24	13/6/24	11	11	–			
17								
18								
19								
20								

COURSE OUTCOMES

After the completion of the course, the student will be able to

CO No.	Course Outcomes	Highest Cognitive Level
21C212.1	Model the transmission line parameter for different configuations and for different conductor types	K3
21C212.2	Identify the performance of transmission lines using equivalent circuits, transmission efficiency and voltage regulation	K3
21C212.3	Construct a mechanical design for the overhead lines for outlining the impact of tension and sag for different weather conditions	K3
21C212.4	Compare the different types of cables, their construction and grading for inferring the cable parameters	K2
21C212.5	Infer the AC and DC distribution systems and appropriate loading of concentrated and distributed losses	K2

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

CO No.	Level of CO	Course Outcomes												Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21C212.1	K3	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21C212.2	K3	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21C212.3	K3	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21C212.4	K2	2	1	-	-	-	-	-	-	-	-	-	1	2	-	-
21C212.5	K2	2	1	-	-	-	-	-	-	-	-	-	1	2	-	-

JUSTIFICATION OF MAPPING COs WITH POs

CO	PO	Justification
21C212.1	PO1	Ability to identify and model the transmission line parameters for different configurations
	PO2	Ability to compare the transmission line parameter values of solid, stranded and bundled conductors
	PO12	Ability to utilize the interference concept with neighbouring communication circuits in designing a reliable system
	PSO1	Ability to build the structure of electric power system as a model with defined technical aspects
21C212.2	PO1	Ability to model the short, medium and long transmission lines using equivalent circuits
	PO2	Ability to make use of parameters like attenuation constant, phase constant, surge impedance, etc to study the performance of transmission line
	PO12	Ability to develop power circle diagrams to study the real and reactive power flow in lines
	PSO1	Ability to choose appropriate critical voltages to infer the formation of corona and its effect on transmission line
21C212.3	PO1	Ability to model overhead transmission lines using appropriate mechanical design
	PO2	Ability to select appropriate tension and sag values for different weather conditions
	PO12	Ability to make use of the voltage distribution in the insulator string to improve the string efficiency
	PSO1	Ability to identify the accurate method of testing an insulator
21C212.4	PO1	Ability to explain the different types of underground cables
	PO2	Ability to infer the potential gradient to study the capacitance of single core and 3-core belted cables
	PO12	Ability to outline the construction of single core and 3-core belted cables
	PSO1	Ability to interpret the grading pattern for different types of cables
21C212.5	PO1	Ability to infer the concentrated and distributed loading methods in both AC and DC distribution systems
	PO2	Ability to outline the various techniques of voltage control and power factor improvement in reduction of distribution loss

JUSTIFICATION OF MAPPING COs WITH POs

CO	PO	Justification
	PO12	Ability to explain the components and functioning of different types of substations
	PSO1	Ability to compare EHVAC, HVDC systems and their impacts

ASSESSMENT WEIGHTAGE COMPONENTS

Direct Assessment	TARGET PERCENTAGE				CO WEIGHTAGE				
	TARGET LEVEL %	% OF STUDENTS			CO1	CO2	CO3	CO4	CO5
		LEVEL 1	LEVEL 2	LEVEL 3					
Assessment - 1 / Work Sheet	100	60	70	80	20%				
Project / Case Study / Seminar	100	60	70	80	20%	20%	20%	20%	20%
CAT I	80	60	70	80	20%				
IAT - I	70	60	70	80	40%	40%	20%		
Assignment - II / Work Sheet	100	60	70	80		20%			
CAT II	80	60	70	80		20%			
Assignment - III / Work Sheet	100	60	70	80			20%		
CAT III	80	60	70	80			20%		
IAT - II	70	60	70	80			20%	40%	40%
Assignment - IV / Work Sheet	100	60	70	80				20%	
CAT IV	80	60	70	80				20%	
Assignment - V / Work Sheet	100	60	70	80					20%
CAT V	80	60	70	80					20%
University Exam	B	60	70	80					
CO WEIGHTAGE TOTAL						100	100	100	100

TRANSMISSION LINE PARAMETERS **COURSE DELIVERY PLAN**

UNIT - I

Topic	Date		Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resoueces	Outcome
	Portion Planned	Portion Covered					
Structure of electric power system	28/2/24	28/2/24	21C212.1	K2	MD1	T1	Students will be able to explain the structure of power system
Parameters of single and three phase	28/2/24	1/3/24	21C212.1	K2	MD1	T1	infer the parameters like R, L, C in 1φ
transmission lines with single and double circuits	1/3/24	1/3/24	21C212.1	K2	MD1	T2	interpret the inductive and capacitive
Resistance, inductance and capacitance	4/3/24	4/3/24	21C212.1	K2	MD2	T2	effect in single
of solid, stranded and bundled conductors	5/3/24	5/3/24	21C212.1	K2	MD2	T3	conductor, double circuit, bundled
Typical configuration, conductor types	5/3/24	5/3/24	21C212.1	K2	MD2	T3	conductor, compsite
Symmetrical spacing	6/3/24	6/3/24	21C212.1	K3	MD2	R1	conductors and to apply the concept of
Unsymmetrical spacing and transposition	6/3/24	6/3/24	21C212.1	K3	MD2	R1	unsymmetricdl and
Application of self and mutual GMD	6/3/24	6/3/24	21C212.1	K2	MD1	R3	symmetrical spacing between the lines with GMR & GMD
Skin and proximity effects	13/3/24	13/3/24	21C212.1	K2	MD3	R4	infer the impact of skin effect and proximity effect
Effects of earth on the capacitance of the transmission line	13/3/24	13/3/24	21C212.1	K2	MD2	R2	outline the effect of earth on capacitance and to
Interference with neighbouring communication circuits	13/3/24	13/3/24	21C212.1	K2	MD3	T1	infer the interference between neighbouring communication line with transmission line

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MODELLING AND PERFORMANCE OF TRANSMISSION LINES

COURSE DELIVERY PLAN

UNIT - II

Topic	Date		Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resoueces	Outcome
	Portion Planned	Portion Covered					
Performance of Transmission lines	13/3/24	13/3/24	21C212.2	K2	MD2	T2	Students will be able to infer the performance of transmission lines
Short line, medium & long line	15/3/24	13/3/24 14/3/24	21C212.2	K2	MD2	T3	explain the classification of short, medium & long tr. line
Equivalent circuits, phasor diagram	18/3/24 19/3/24	14/3/24 18/3/24	21C212.2	K3	MD2	T1	identify the equivalent circuit & phasor diagram
Attenuation constant, phase constant, surge impedance	19/3/24	19/3/24	21C212.2	K3	MD2	R1	to model the short, medium & long transmission
Transmission efficiency	20/3/24	19/3/24	21C212.2	K3	MD2	T3	line and to solve attenuation constant, phase constant, surge
Voltage regulation	20/3/24	20/3/24	21C212.2	K3	MD2	R6	impedance, transmission efficiency and voltage regulation
Real and reactive power flow in lines	20/3/24	20/3/24	21C212.2	K2	MD3	R8	interpret the real and reactive power flow in lines
Power circle diagrams	22/3/24 25/3/24	21/3/24 25/3/24	21C212.2	K3	MD2	T1	apply power circle diagrams to calculate real & reactive powers
Ferranti effect	27/3/24	27/3/24 27/3/24	21C212.2	K2	MD3	T3	explain the impact of Ferranti effect
Formation of Corona	27/3/24	2/4/24	21C212.2	K2	MD3	T2	infer the concept of corona, its formation and the critical
Critical Voltages	2/4/24	2/4/24	21C212.2	K2	MD2	T2	voltages calculation
Effect on line performance	2/4/24	2/4/24	21C212.2	K2	MD2	T1	outline the effect of line performance through efficiency & regulation

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SAG CALCULATION AND LINE SUPPORTS

COURSE DELIVERY PLAN

UNIT - III

Topic	Date		Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resoueces	Outcome
	Portion Planned	Portion Covered					
Mechanical design of overhead lines	3/4/24	2/4/24	21C212.3	K2	MD2	T3	Students will be able to explain the mechanical design of overhead lines
Line supports	3/4/24	2/4/24	21C212.3	K2	MD3	T1	through line supports & towers
Types of towers	3/4/24	2/4/24	21C212.3	K2	MD3	R6	and its different types based on respective purpose
Tension and Sag calculation for different weather conditions	3/4/24	3/4/24	21C212.3	K3	MD2	R7	apply appropriate measures to calculate tension & sag for unequal supports, supports at equal height and ice & wind loading
	06/4/24	8/4/24	21C212.3	K3	MD2	R3	
Methods of grounding	06/4/24	8/4/24	21C212.3	K2	MD3	R2	explain the different grounding methods
Insulators : Types	08/4/24	10/4/24	21C212.3	K2	MD3	T1	Outline the insulator types based on respective purpose
Voltage distribution in insulator string	10/4/24	15/4/24	21C212.3	K3	MD2	T1	make use of insulator string to solve the voltage
Improvement of string efficiency	10/4/24	16/4/24	21C212.3	K3	MD2	T1	distribution across the string and calculate the string efficiency
Testing of insulators	17/4/24	16/4/24	21C212.3	K2	MD3	R4	infer the necessity of insulator testing

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UNDERGROUND CABLES

COURSE DELIVERY PLAN

UNIT - IV

Topic	Date: Portion Planned	Date: Portion Covered	Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resoueces	Outcome
Underground cables	22/4/24	22/4/24	21C212.4	K2	MD3	T3	Students will be able to infer the need of underground (UG) cable,
Types of cables	22/4/24	22/4/24	21C212.4	K2	MD3	T2	its types under different
Construction of single core and	30/4/24	22/4/24	21C212.4	K2	MD2	T2	classification and construction of single core and 3-core
3-core belted cables	6/5/24	7/5/24	21C212.4	K2	MD2	T2	belted cables with neat sketches.
Insulation resistance	7/5/24	7/5/24	21C212.4	K2	MD2	T1	explain the impact of insulation resistance,
Potential Gradient	7/5/24	30/4/24	21C212.4	K2	MD2	R3	potential gradient and
Capacitance of single core and	8/5/24	7/5/24	21C212.4	K2	MD2	R2	capacitance of single core
3-core belted cables	8/5/24	7/5/24	21C212.4	K2	MD2	R1	and 3-core belted cables.
Grading of cables	8/5/24 13/5/24	7/5/24 9/5/24	21C212.4	K2	MD3	R1	interpret the capacitance and intersheath grading of cables
Power factor and heating of cables	13/5/24 14/5/24	9/5/24	21C212.4	K2	MD1	R4	outline the need for power factor and heating of cable
DC cables	14/5/24	13/5/24	21C212.4	K2	MD3	R6	explain the operation of DC cables
CBS: Analysis of cables under water	15/5/24	14/5/24	21C212.4	K2	MD3	T1	infer the application of cables under water

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DISTRIBUTION SYSTEMS

COURSE DELIVERY PLAN

UNIT - V

Topic	Date: Portion Planned	Date: Portion Covered	Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resoueces	Outcome
Distribution systems - General aspects	15/5/24	15/5/24	21C212.5	K2	MD3	T1	Students will be able to infer the components of distribution system
Kelvin's Law	15/5/24	15/5/24	21C212.5	K2	MD2	T1	explain Kelvin's law and its limitations
AC and DC distributions	20/5/24	15/5/24 16/5/24	21C212.5	K2	MD2	T2	interpret the current distribution and voltage
Concentrated and Distributed Loading	21/5/24	15/5/24 16/5/24	21C212.5	K2	MD2	T2	drop through concentrated and distributed loading in AC and DC
Techniques of Voltage Control &	22/5/24	20/5/24	21C212.5	K2	MD1	T3	infer the different system.
Power factor improvement	22/5/24	20/5/24	21C212.5	K2	MD1	T3	voltage control techniques
Distribution Loss	22/5/24	21/5/24	21C212.5	K2	MD2	R6	explain the need of power factor improvement and the impact of distribution losses
Types of Substations	27/5/24	21/5/24	21C212.5	K2	MD3	R5	infer the functioning of types of substations,
Trends in Transmission and	27/5/24	22/5/24	21C212.5	K2	MD3	R3	advancements
Distribution: EHVAC, HVDC, FACTS	27/5/24	22/5/24	21C212.5	K2	MD3	R2	
(Qualitative Treatment only)							
CBS: Application of FACTS	27/5/24	22/5/24	21C212.5	K2	MD3	R1	

Faculty Incharge

HOD

Principal

Month & Year :

Roll No	University Register Number	Name of the Student	28/2 Wed	01/3 Fri	4/3 Mon	5/3 Tue	6/3 Wed	13/3 Wed	14/3 Thu	18/3 Mon	19/3 Tue	20/3 Wed
		Date										
		Day Order										
		Period	6	6,7	3	3,4	1,6,7	3,5,6	1	1,2	4	5,6
1	963821105001	Abhijith Krishna A	a	a	a	a	a	1	1	1	1	1
2	2	Abin Kumar R	a	a	1	1	1	a	1	1	a	a
3	4	Adharsh Aravind D	1	a	a	a	a	1	1	a	1	1
4	5	Akash T	1	1	1	1	1	1	1	1	1	a
5	6	Alfa Thasneem S S	1	1	a	a	a	a	1	1	1	1
6	7	Anton Bright A	a	a	a	a	a	a	1	a	1	1
7	8	Anusha Dinesan T	1	1	1	1	1	1	1	1	1	a
8	9	Anusha S	1	1	1	a	1	1	1	1	1	a
9	10	Arunam S	1	1	OD	OD	OD	1	1	1	1	1
10	11	Daniel Abu C R	OD	1	1	1	1	1	1	1	1	1
11	12	Deepak S	1	a	a	1	1	a	1	1	1	1
12	13	Deepshika M	a	a	a	a	a	1	1	1	1	1
13	15	Edwin T	1	1	1	1	1	1	1	1	1	1
14	16	Essakiyappan K	1	1	1	1	1	1	1	1	1	1
15	17	Febin Fab L	1	1	1	1	1	1	1	1	1	1
16	18	Gurusiranjeevi S	a	a	1	1	1	1	a	1	1	a
17	19	Guruvenkadesh G	a	1	1	a	1	1	1	1	1	1
18	20	Harishwaran K	a	a	1	1	1	a	1	1	1	a
19	21	Hari Vishva S	a	1	1	1	1	1	1	1	1	1
20	22	Jithu S	OD	1	1	1	1	1	1	1	a	1
21	23	Kaushik S	OD	a	1	1	a/1	a	a	1	1	1
22	24	Karthika T	1	1	1	1	1	1	1	1	1	1
23	25	Karthikayen T	a	1	1	1	1	1	1	1	1	a
24	26	Kavitha W	OD	1	1	1	a	a	1	1	1	1
25	27	Kishore B M	a	1	1	1	1	a	1	1	a	a
26	28	Keil Raj S	1	a	1	1	1	1	1	1	1	1
27	30	Mohamed Mobaideen Yousuf W	a	OD/1	1	1	1	a	1	1	a	a
28	31	Murugaperumal P	1	1	1	1	1	1	1	1	1	1
29	32	Muthu Kumar C	1	1	1	1	1	1	1	1	1	1
30	33	Muthu Selvam L	a	1	1	1	1	1	1	1	1	1
31	34	Muthu Sudha M	OD	1	1	1	1	1	1	1	1	1
32	35	Naba Kavitha M	OD	1	1	1	1	1	1	1	1	1
33	36	Nadar Tamizan	a	1	1	1	1	1	1	1	1	1
34	37	Nafeel L	1	1	1	1	1	1	1	1	1	a
35	38	Nawsun I G	a	a	a	1	1	1	1	a	1	1
36	39	Prathikesan P	1	1	1	1	1	a	1	1	1	1
37	40	Praveen	OD	1	OD	OD	OD	OD	a	1	1	1
38	41	Prithu T	1	1	1	1	1	1	1	1	1	1
39	42	Ragavan R	1	1	1	1	1	1	1	1	1	1
40	43	Rahul R	a	1	1	1	a	1	1	1	1	1
No of Absentees												
Staff Signature												

CAT1

Month & Year :

CAT2

CAT3

21/3 Thu	25/3 Mon	27/3 Wed	1/4 Mon	2/4 Tue	3/4 Wed	8/4 Mon	8/4 Mon	10/4 Wed	16/4 Tue
2	2	6	1	3,4	4,6	1	2	6	5,6,7,8
1	1	1	1	OD	1	1	1	a	1
a	1	1	1	1	1	a	1	1	a
1	1	a	1	a	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	a	a	1	1	a	1
1	1	a	1	a	1	1	1	1	1
a	1	1	1	1	1	a	a	a	1
1	1	1	1	1	a	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	a	1	1	a	a	a	a	1	a
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	a	1	1	1	1
a	a	1	1	1	a	1	1	a	a
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	a	a	a	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	a	1
1	a	a	a	1	1	1	1	1	1
1	1	1	a	1	1	1	1	1	1
1	a	1	1	1	a	a	a	a	1
1	1	1	a	1	1	1	1	a	1
a	1	a	1	a	1	1	1	1	1
1	1	1	1	1	a	1	1	1	1
a	1	1	1	1	1	a	1	a	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	a	1	1	1	1	1	1	1	a
1	1	1	1	1	a	a	a	1	1
1	1	1	1	1	1	d	a	1	1
1	1	1	1	1	1	1	1	1	1
1	a	1	1	1	1	1	1	1	1
1	1	a	1	a	a	1	1	a	1
1	1	a	1	1	a	1	1	1	1
1	a	1	1	1	1	1	1	a	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	a	a	1	1	1	1	1	1

Month & Year :

Roll No.	University Register Number	Name of the Student
1	963822105001	Abhijith Krishna A
2	2	Abin Kumar R
3	4	Adharsh Aravind D
4	5	Akash T
5	6	Alfa Thasneem S S
6	7	Allan Bright A
7	8	Amritha Simeon I
8	9	Anusha S
9	10	Arunram S
10	11	Daniel Obas C R
11	12	Deepak S
12	13	Dhibhika M
13	15	Edwin T
14	16	Essakiyappan K
15	17	Febin Jeb L
16	18	Gurusiranjeevi S
17	19	Guruvenkadesh G
18	20	Harishvasan K
19	21	Havi Vishva S
20	22	Jithu S
21	23	Kavithirk S
22	24	Karthika T
23	25	Kavithirayem J
24	26	Keerthika W
25	27	Kishore B M
26	28	Koil Raj S
27	30	Mohamed Mobaideen Yoosuf
28	31	Muniyaperumal P
29	32	Muthu kumar C
30	33	Muthu Selvam L
31	34	Muthu Sudha M
32	35	Naba Keerthika M
33	36	Nadar Jemison
34	37	Nafeel L
35	38	Naveen I G
36	39	Prathickeem P
37	40	Praveen
38	41	Preethi T
39	42	Raghavan R
40	43	Rahul R
No.of Absentees		
Staff Signature		

Month & Year :

22/4	30/4	7/5	9/5	13/5	14/5	15/5	16/5	18/5	20/5
Mon	Tue	Tue	Thu	Mon	Tue	Wed	Thu	Thu	Mon
2	4	1,3,4,8	2,4	2	5	6,8	1	3	2,6

Month & Year :

21/5	22/5	27/5	11/6	12/6	13/6
Tue	Wed	Mon	Tue	Wed	Thu
2,3	6,7	5,6,7,8	5,6,7,8	1,2,3,4	6,7,8

Month & Year :

Roll No.	University Register Number	Name of the Student	Date	28/2	01/3	4/3	5/3	6/3	13/3	14/3	18/3	19/3	20/3
			Day Order	Wed	Fri	Mon	Tue	Wed	Wed	Thu	Mon	Tue	Wed
			Period	6	6	3	1,3,4	1,6,7	3,5,6	1	1,2	4	5,6
41	963221050 44	Rahul R		a	/	/	a	/	/	/	/	/	/
42	46	Rathiesh R		/	/	/	/	/	/	/	/	/	/
43	47	Rohith R V		/	a	a	a	/	/	/	a	a	/
44	48	Satheesh S		/	/	/	/	/	/	/	/	/	/
45	49	Sharmily M		/	/	/	/	/	/	/	/	/	/
46	50	Siva Hariesh K B		/	/	/	/	/	/	/	/	/	/
47	51	Sivalingam K		a	/	/	/	/	/	/	/	/	/
48	52	Sivan Murugan T		a	a	a	/	/	/	/	/	/	a
49	53	Sivaranjani M		OD	/	/	/	/	/	/	/	/	/
50	54	Sri Thabush P		/	/	/	/	/	/	/	/	/	/
51	55	Sulfiak S		/	a	/	/	/	/	/	/	/	/
52	56	Surya K		/	/	a	a	/	/	/	/	/	/
53	57	Vaidin Karthikeyan B		OD	/	OD	OD	OD	/	/	/	/	/
54	58	Varun Kumar K		OD	/	OD	OD	OD	/	/	/	/	/
55	59	Vignesh P		/	a	a	a	/	/	/	a	a	/
56	60	Vijin S		/	a	a	a	/	/	/	/	/	/
57	61	Vinoth Kumar R		/	/	OD	OD	OD	/	/	/	/	/
58	62	Yogesh S		OD	/	/	/	/	/	/	/	a	a
59	301	Sidhanth P		/	/	/	/	/	/	/	/	/	/
60													
61													
62													
63													
64													
65													
66													
67													
68													
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71													
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73													
74													
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79													
80													
No of Absentees													
Staff Signature													

Month & Year :

Roll No.	University Register Number	Name of the Student
41	963322105044	Rahul R
42	46	Rathiesh R
43	47	Rohith R V
44	48	Satheesh S
45	49	Shanmily M
46	50	Siva Harkesh K B
47	51	Sivalingam K
48	52	Sivan Murugam T
49	53	Sivaranjani M
50	54	Sri Thanush P
51	55	Sulfeak S
52	56	Sweja K
53	57	Vaalin Karthikeya
54	58	Vaalin Kumar K
55	59	Vignesh P
56	60	Vijin S
57	61	Vinoth Kumar R
58	62	Yogesh S
59	301	Sidhanth P
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Date
Day Orde
Period
No of Absentees
Staff Signature

Month & Year :

22/4	30/4	7/5	9/5	13/5	14/5	15/5	16/5	16/5	20/5
Mon	Tue	Tue	Thu	Mon	Tue	Wed	Thu	Thu	Mon
2	4	1,3,4	8,2	2	5	6,8	1	3	2

Month & Year :

21/5	22/5	27/5	11/6	12/6	13/6
Tue	Wed	Mon	Tue	Wed	Thu
2,3	6,7	5,6,7,8	5,6 7,8	1,2, 3,4	6,7,8

Month & Year: 17/4 28/5

Roll. No.	University Register Number	Internal Assessment Test Marks (Out of 100)		Total Marks (Out of 200) (IAT-1+IAT-2)	Total Marks (Out of 60) A	Asignment / Worksheet / Seminar					Total Assign-ment Marks (out of 20) B	Mini Project Case Study (out of 20) C	Total Marks (out of 100) A+B+C	Internal Marks (out of 40)
		IAT 1	IAT 2			1	2	3	4	5				
1	963322105001	81	82	163	49	10	10	10	10	10	20	20	89	36
2	2	70	95	165	50	10	10	10	10	10	20	20	90	36
3	4	78	97	175	53	10	10	10	10	10	20	20	93	37
4	5	88	100	188	56	10	10	10	10	10	20	20	96	38
5	6	80	100	180	54	10	10	10	10	10	20	20	94	38
6	7	76	85	161	48	10	10	10	10	10	20	20	88	35
7	8	70	70	140	42	10	10	10	10	10	20	20	82	33
8	9	82	100	182	55	10	10	10	10	10	20	20	95	38
9	10	89	100	189	57	10	10	10	10	10	20	20	97	39
10	11	91	100	191	57	10	10	10	10	10	20	20	97	39
11	12	70	70	140	42	10	10	10	10	10	20	20	82	33
12	13	96	100	196	59	10	10	10	10	10	20	20	99	40
13	15	100	86	186	56	10	10	10	10	10	20	20	96	38
14	16	88	100	188	56	10	10	10	10	10	20	20	96	38
15	17	87	100	187	56	10	10	10	10	10	20	20	96	38
16	18	70	91	161	48	10	10	10	10	10	20	20	88	35
17	19	80	93	173	52	10	10	10	10	10	20	20	92	37
18	20	70	94	164	49	10	10	10	10	10	20	20	89	36
19	21	83	100	183	55	10	10	10	10	10	20	20	95	38
20	22	94	100	194	58	10	10	10	10	10	20	20	98	39
21	23	70	86	156	47	10	10	10	10	10	20	20	87	35
22	24	91	100	191	57	10	10	10	10	10	20	20	97	39
23	25	79	90	169	51	10	10	10	10	10	20	20	91	36
24	26	83	100	183	55	10	10	10	10	10	20	20	95	38
25	27	73	100	173	52	10	10	10	10	10	20	20	92	37
26	28	88	77	165	50	10	10	10	10	10	20	20	90	36
27	30	72	100	172	52	10	10	10	10	10	20	20	92	37
28	31	85	78	163	49	10	10	10	10	10	20	20	89	36
29	32	100	99	199	60	10	10	10	10	10	20	20	100	40
30	33	92	100	192	58	10	10	10	10	10	20	20	98	39
31	34	90	100	190	57	10	10	10	10	10	20	20	97	39
32	35	90	100	190	57	10	10	10	10	10	20	20	97	39
33	36	85	100	185	56	10	10	10	10	10	20	20	96	38
34	37	85	100	185	56	10	10	10	10	10	20	20	96	38
35	38	70	93	163	49	10	10	10	10	10	20	20	89	36
36	39	70	70	140	42	10	10	10	10	10	20	20	82	33
37	40	82	100	182	55	10	10	10	10	10	20	20	95	38
38	41	93	100	193	58	10	10	10	10	10	20	20	98	39
39	42	100	97	197	59	10	10	10	10	10	20	20	99	40
40	43	78	95	173	52	10	10	10	10	10	20	20	92	37
Staff Signature														

Month & Year : 17/4 28/5

Roll. No.	University Register Number	Internal Assessment Test Marks (Out of 100)		Total Marks (Out of 200) (IAT-1+IAT-2)	Total Marks (Out of 60) A	Asignment / Worksheet / Seminar					Total Assign-ment Marks (out of 20) B	Mini Project Case Study (out of 20) C	Total Marks (out of 100) A+B+C	Internal Marks (out of 40)
		IAT 1	IAT 2			1	2	3	4	5				
41	963322105044	70	92	162	49	10	10	10	10	10	20	20	89	36
42	46	91	100	191	57	10	10	10	10	10	20	20	97	39
43	47	70	70	140	42	10	10	10	10	10	20	20	82	33
44	48	100	100	200	60	10	10	10	10	10	20	20	100	40
45	49	94	100	194	58	10	10	10	10	10	20	20	98	39
46	50	98	100	198	59	10	10	10	10	10	20	20	99	40
47	51	86	91	177	53	10	10	10	10	10	20	20	93	37
48	52	72	75	147	44	10	10	10	10	10	20	20	84	34
49	53	97	100	197	59	10	10	10	10	10	20	20	99	40
50	54	90	92	182	55	10	10	10	10	10	20	20	95	38
51	55	70	73	143	43	10	10	10	10	10	20	20	83	33
52	56	80	94	174	52	10	10	10	10	10	20	20	92	37
53	57	83	100	183	55	10	10	10	10	10	20	20	95	38
54	58	92	100	192	58	10	10	10	10	10	20	20	98	39
55	59	70	91	161	48	10	10	10	10	10	20	20	88	35
56	60	74	75	149	45	10	10	10	10	10	20	20	85	33
57	61	92	100	192	58	10	10	10	10	10	20	20	98	39
58	62	70	72	142	43	10	10	10	10	10	20	20	83	33
59	301	96	100	196	59	10	10	10	10	10	20	20	99	40
60														
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Staff Signature														

COURSE EVALUATION THROUGH CONTINUOUS ASSESSMENT TESTS

Roll No.	University Register Number	Continuous Assessment Test	1	2	3	4	5	* Status		
		Date	18/3	1/4	8/4	7/5	16/5	I	II	III
		Name of the Student								
1	963322105001	Abyith Krishna A	55	50	55	60	65			
2	2	Abin Kumar R	20	75	65	75	85	*		
3	4	Adharsh Aravind D	0	0	85	70	95			
4	5	Akash T	75	80	90	65	70			
5	6	Alfa Thasneem S S	55	80	100	100	85			
6	7	Allan Bright A	0	0	90	55	80			
7	8	Amutha Dinoson J	5	35	0	55	50	*		
8	9	Anusha S	100	100	100	50	100			
9	10	Aviram S	100	55	100	55	80			
10	11	Daniel Obas C R	80	50	85	50	90			
11	12	Deepak S	15	5	0	50	50	*	*	
12	13	Deepthika M	95	50	90	100	100			
13	15	Edwin J	50	60	55	50	95			
14	16	Essakiyappan K	65	50	90	55	85			
15	17	Febin Jeo L	70	65	85	70	65			
16	18	Gurusiranjeevi S	5	50	50	60	50	*		
17	19	Guruvenkadesh G	55	5	75	55	60		*	
18	20	Harishvaran K	40	0	0	50	55		*	
19	21	Hari Visva S	65	90	75	50	100			
20	22	Jithu S	100	60	100	55	100			
21	23	Karthick S	50	55	60	100	50			
22	24	Karthika T	95	80	85	50	100			
23	25	Karthikayen J	50	0	0	80	50		*	
24	26	Keerthika W	100	95	95	50	95			
25	27	Kishore BM	70	60	90	90	100			
26	28	Koil Raj S	80	50	70	95	50			
27	30	Mohamed Mobaideen Yoosuf U	85	90	85	55	100			
28	31	Murugaperumal P	55	0	40	55	50		*	
29	32	Muthu Kumar C	55	85	80	50	75			
30	33	Muthu Selvam L	65	55	85	55	100			
31	34	Muthu Sudha M	100	90	0	50	100			
32	35	Naba Keerthika M	90	100	0	95	100			
33	36	Nadar Jemison Johnson	90	65	100	95	100			
34	37	Naresh L	85	50	90	65	80			
35	38	Naveen I G	0	0	55	90	50			*
36	39	Prathickson P	50	0	5	55	50			*
37	40	Pravin Krishna A S	65	80	75	50	90			
38	41	Preethi T	100	100	100	50	100			
39	42	Ragavan R	40	70	35	95	85		*	
40	43	Rahul R	55	65	30	50	70			

* Tick if slow learner. Assessment of slow learners is done after every 2 Continuous Assessment Tests.

T&D

COURSE EVALUATION THROUGH CONTINUOUS ASSESSMENT TESTS

Roll No.	University Register Number	Continuous Assessment Test	1	2	3	4	5		* Status		
		Date	18/3	1/4	8/4	7/5			I	II	III
		Name of the Student									
41	963322105044	Rahul R	25	55	0	50	50		*		
42	46	Rathish R	80	60	100	50	100				
43	47	Rohith R V	0	55	0	55	50				
44	48	Satheesh S	90	80	100	55	100				
45	49	Sharmily M	100	55	100	65	100				
46	50	Siva Hareesh K B	80	60	100	75	100				
47	51	Sivalingam K	65	55	0	70	65				
48	52	Sivan Murugan T	15	80	90	85	50		*	*	
49	53	Sivaranjani M	100	100	100	95	100				
50	54	Sri Thanush P	60	15	85	50	50			*	
51	55	Sulfeak S	35	35	50	50	50		*	*	
52	56	Surya K	20	35	70	50	70		*	*	
53	57	Varun Karthikeyan B	50	70	95	55	55				
54	58	Varun Kumar G	80	90	95	80	100				
55	59	Vignesh P	0	0	50	50	50				
56	60	Vijin S	50	0	90	50	80				
57	61	Vinoth Kumar R	50	85	95	50	85				
58	62	Yogesh S	50	0	15	50	50				
59	301	Sibbanth P	100	95	100	100	100				
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* Tick if slow learner. Assessment of slow learners is done after every 2 Continuous Assessment Tests.

SLOW LEARNERS SUPPORT CLASSES - ATTENDANCE

Roll No.	University Register Number	Name of the Student	Date	11/6	12/6	13/6
			Day Order	Tue	Wed	Thu
			Period	5,6,7,8	1,2,3,4	6,7,8
1	963822105002	Abin Kumar R		a	/	a
2	8	Amirtha Dinoson I		/	a	/
3	12	Deepak S		/	a	/
4	18	Guruviramjeevi S		/	a	a
5	19	Guruvenkadesh G		/	a	/
6	20	Harishvasan K		/	/	a
7	25	Karthikeyan I		/	/	/
8	31	Murugaperumal P		/	a	a
9	38	Naveen I G		a	a	a
10	42	Ragavan R		/	/	a
11	44	Rahul R		/	/	a
12	52	Sriam Murugan T		a	a	/
13	54	Sri Thanush P		/	/	a
14	55	Sulfeak S		a	a	a
15	56	Sushi K		/	/	a
16	39	Prathickson P		a	a	a
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Staff Signature						

T&D

LESSONS TAUGHT FOR SLOW LEARNERS DURING SUPPORT CLASSES

Lecture No.	Date	Period	Topics Covered	HOD	Principal
1	11/6/24	5,6,7,8	Unit 1 & 2 - Important questions on L, C line parameters, structure of power system, Medium line and Long line analysis	PG	
2	12/6/24	1,2,3,4	Unit 1 & 2 - Problems	PG	
3	13/6/24	6,7,8	Unit 3 & 4 - Types of insulators, String efficiency problems, Sag and Tension, Constitution of UG cable, Grading	PG	
4					
5					
6					
7					
8					
9					
10					

Staff Signature

GUEST LECTURE / SEMINAR / WORKSHOP TO MEET INDUSTRY / PROFESSIONAL REQUIREMENTS / INDUSTRIAL VISIT

Sl. No.	Date	Topics	Resource Person / Industry	Key Area Covered	Relevant PO	Relevant PSO

TOPICS BEYOND SYLLABUS BASED ON GAP ANALYSIS

Sl. No.	Topics	Pertaining CO(S)	Highest Cognitive Level	Mode of Delivery	Delivery Resources
1	Analysis of cables under water	21C212.4	K2	MD3	T1
2	Application of FACTS	21C212.5	K2	MD3	T3

PRINCIPAL

TIME TABLE

PERIOD / DAY ORDER	1 9.25 am to 10.20 am	2 10.20 am to 11.10 am	3 11.20 am to 12.10 am	4 12.10 am to 1.00 pm	Lunch 1.00 pm to 1.40 pm	5 1.40 pm to 2.20 pm	6 2.20 pm to 3.00 pm	7 3.10 pm to 3.50 pm
DAY - 1		EE3401						
DAY - 2				EE3401				
DAY - 3						EE3401	EE3401	
DAY - 4								
DAY - 5	EE3401							
DAY - 6								