



6th Board of Studies Meeting in the Department of Electrical and Electronics Engineering

Mode: Through Online (**Meeting Link: <https://meet.google.com/cuq-ouoi-ckb>**)

Venue: EEE Department Faculty Room

Date & Time: 17.12.2021 & 10.30 am

AGENDA

BoS / EEE 6.1: Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Electrical and Electronics Engineering.

BoS / EEE 6.2: Confirmation of the Minutes of the 5th meeting of Board of studies in the department of Electrical and Electronics Engineering held on 26th June 2021 and Action taken report of 5th meeting of Board of studies.

BoS / EEE 6.3: Business brought forward by the Chairman, Board of Studies

6.3.1. Review of 5th BoS meeting minutes.

6.3.2. NPTEL course for 2019 R students.

6.3.3. Value added Courses.

6.3.4. Confirmation of 3rd and 4th Sem UG Syllabus for 2021 regulation.

BoS / EEE 6.4: Suggestions given by the BOS Members

BoS / EEE 6.5: Any other items for discussion



Department of Electrical and Electronics Engineering
MINUTES OF THE MEETING

The 6th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 17th December 2021 at 10.30am through online.

The following members were present:

1. Dr.J.Jasper Gnana Chandran Prof & Head Chairman BoS.
2. Dr.P.Maruthupandi, Assistant Professor (Sr. Grade), EEE, GCT, Coimbatore-University Nominee.
3. Dr.M.Ramaswamy, Professor, EEE, Annamalai University-Academic Expert.
4. Dr. A.Ramkumar, Professor, EEE, Kalasalingam University-Academic Expert.
5. Mr.A.Kannan, Senior Manager, Seshasayee Paper and Boards Ltd, Tirunelveli-Industrial Expert.
6. Mr.M.Gengaraj, Assistant Professor, EEE, National Engineering College- Alumni Member
7. Dr.P.Annapandi-Internal Member
8. Dr.A.Justin Diraviam-Internal Member
9. Dr.A.Ravi – Internal Member
10. Dr.A.Gnanasarvanan-Internal Member
11. Mr.J.Daniel Sathyaraj-Internal Member
12. Mr.J.Antony Robinson-Internal Member
13. Dr.R.Rajagopal-Internal Member
14. Dr.J.Sivadasan-Internal Member
15. Mr.V.Vignesh Arumugam – Internal Member
16. Dr.U.Muthuraman-Internal Member
17. Mr.N.Subramanian – Internal Member
18. Mr.S.Selvakumar-Internal Member
19. Mr.N.V.Selvam-Internal Member
20. Mrs.R.Aandal-Internal Member
21. Mrs.S.Chithra-Internal Member
22. Mrs.N.S.Pratheeba-Internal Member
23. Mrs.A.Amala Manuela-Internal Member
24. Mr.A.Sheik Siddik-Internal Member

BoS / EEE 6.1: Welcome Address and Opening Remarks by Chairman, Board of Studies in the Department of Electrical and Electronics Engineering

The Chairman, BOS of the Electrical and Electronics Engineering welcomed all the members for the 6th Board of studies meeting.



BoS / EEE 6.2: To confirm the Minutes of Fourth BoS Meeting held on 26th June 2021.

The minutes of the fifth Board of Studies meeting held on 26th June 2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 5th Academic Council.

Annexure I: Action Taken Report

BoS / EEE 6.3.1: Review of 5th BoS meeting minutes

The Board Chairman Dr.J.Jasper Gnana Chandran presented the changes carried out in Regulation 2021 Syllabus based on the recommendations given in fifth BoS meeting. All the Suggestions given by BoS Members were taken into account and incorporated in the Regulation 2021 syllabus.

Semester	Course Code	Course Name	Recommendations given by BOS Members
I	-	All courses	Accepted
II	21EE2601	Electric Circuits and Network Analysis	The BoS members suggested to include a topic "Introduction to Laplace Transform" in the syllabus. They also suggested that before teaching Electric Circuits and Network Analysis course, the teacher should teach the basic fundamentals of Laplace transforms to the students.
III	21EE3602	Static and DC Rotating Machines	Suggested to change the name as "DC Machines and Transformers"
	21EE3612	Static and DC Rotating Machines laboratory	Suggested to change the name as "DC Machines and Transformers Laboratory"
IV	21EE4604	Synchronous and Induction Machines	Suggested to change the name as "AC Machines". They have also suggested to include I & II unit Induction motor, III & IV unit synchronous machine and V unit Special machines in the syllabus while framing the syllabus



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V	21EE5601	Transmission and Distribution in Power Systems	The BoS members suggested to include Generation of Electric Power topic in Unit I while framing the syllabus
	21EE5602	Microprocessors, Microcontrollers and its Applications	Suggested to change the name as "Microcontrollers and its Applications"
	21EE5604	Design of Static and Rotating Machines	Suggested to change the name as "Design of Electrical machines"
	21EE5612	Microprocessors and Microcontrollers Programming Laboratory	Suggested to change the name as "Microcontrollers Laboratory"
VI	21EE6601	Computer Aided Design of Power System Analysis	Suggested to change the name as "Computer Aided Power System Analysis"
	21EE6102	High Voltage Engineering – PE II	Suggested to shift the course from PE II to PE V (VII Semester)
	21EE6706	Industrial Drives – PE III	Suggested to change the name as "Industrial Drives and Control"
VII	21EE7706	Protection and Switchgear – PE VI	Suggested to shift the course from PE VI to PE II (VI Semester)
	21EE7708	Low Power VLSI Design – PE VI	Suggested to shift the course from PE VI to PE VII (VIII Semester)
VIII	21EE8702	Generation, Utilization and Conservation of Electrical Energy – PE VII	Suggested to shift the course from PE VII to PE VI (VII Semester)

BoS / EEE 6.3.2: NPTEL course for 2019 R students.

The Board Chairman stated that as per 2019 curriculum, the students can take up the online NPTEL courses instead of Professional Elective courses, Value added courses. The Board Chairman presented the online NPTEL courses equivalent to the Professional Elective which can be taken by the students during the V semester of 2021-2022 odd semester.

In this regard, the BoS members suggested the following courses instead of professional elective papers.

- 1.Principle of Digital Communication
2. Principle of Communication Systems.



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3. Fuzzy Sets, Logic and Systems & Applications.
4. High Power Multilevel Converters - Analysis, design and operational issues
5. Circuit Analysis for Analog Designers
6. Digital System Design

The BoS members suggested the following NPTEL courses to be included in Value added Courses.

- 1.Power Quality Improvement Techniques.
- 2.Sensors and Actuators
- 3.Electric Vehicles-Part I.

BoS / EEE 6.3.3: Value added Courses for 2019 R students.

The Board chairman presented the syllabus for the value added course “**Photo voltaic solar system**”. The BoS members suggested to consider the module of Grid connected PV Systems which will be difficult to understand by other department students.

BoS / EEE 6.3.4: 2021 Regulation Curriculum for UG.

The Board Chairman presented the R2021 curriculum, Syllabus from I to IV Semester UG, Syllabus for all semesters PG – M.E. (PSE) & M.E. (PE&D) and credit distributions. The BoS members gave suggestions to make the changes in the following subjects:

Sl. No.	Semester	Course Code	Course Name	Recommendations given by BOS Members
1	I	-	All courses	Accepted
2	II	21EE2601	Electric Circuits and Network Analysis	The BoS members suggested to include a topic “Unbalanced three phase system” in the Unit-I. They also suggested that source transformation should be taught along with voltage and current division rule. They suggested to change the Unit II title as Network Theorems and Topology, in which the theorems should taught first followed by the network topology.



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3	III	21EE3601	Electronic Devices and Integrated Circuits Design	Suggested to change the name as “Analog and Integrated Circuits” , They also suggested to add elaborated heading and applications in Unit-I and Expression for Frequency in Unit-II.
		21EE3602	DC Machines and Transformers.	The BoS members suggested to rearrange the Units in the following manner. Unit III & IV will be taken as Unit II & III. Unit II will be takes as Unit-IV. In the Unit-V, the braking concept to be removed and that can be added in Unit-III DC motor.
		21EE3611	Electronic Devices and Integrated Circuits Lab	The BoS members suggested to change the name as “Analog and Integrated Circuit Design Lab”.
		21EE3612	DC Machines and Transformers laboratory	Suggested to change the objectives of the course.
4	IV	21EE4601	Signals and Systems	BoS members Suggested to make the following changes. Unit I syllabus to be reduced up to power signal. Remaining part of Unit I to be included in Unit II. In Unit II & Unit-III Laplace Transform repeated twice, that should be corrected.



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				<p>Unit IV syllabus to expanded.</p> <p>Unit V syllabus to be rearranged.</p>
		21EE4602	Digital Electronics	<p>BoS members Suggested to have the syllabus in the following order in Unit I Min terms/Max Terms, Karnaugh Map to be shift to Unit II.</p> <p>Unit II title to be changed as Combinational logic Circuits</p> <p>Unit IV & V will be sequential circuits.</p> <p>The VHDL in Unit -V to be removed.</p>
		21EE4603	Control Theory	<p>The BoS members suggested to exclude the topics Digital control system and state variable analysis.</p>
		21EE4604	AC Machines	<p>The BoS members suggested to change the sequence of Units in the following manner.</p> <p>Unit I & II(Synchronous Machines) will be taken as Unit III & IV.</p> <p>Unit III & IV(Induction machines) will be taken as Unit I & II.</p> <p>In the Unit-V, the special machines is taken.</p>
		21EE4605	Modern Electronics Measuring Instruments	<p>Suggested to exclude the topic B-H curve in Unit-I., that can be accomplished practically.</p> <p>Unit II & III to be swapped.</p>
		21EE4611	Control Theory Laboratory	<p>Suggested to change the</p>



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				name as “Control Systems and Simulation Laboratory” .
		21EE4612	AC Machines Laboratory	Suggested to change the objectives of the course.

The Board Chairman presented the 2021 Regulation curriculum and syllabus for M.E. - PED & M.E. – PSE and all the members accepted it.

BoS / EEE 6.4 : Suggestions Given by the Members

The BoS members appreciated the effort taken by the FXEC/ EEE Department for framing the syllabus in excellent manner.

The members had a brainstorming discussion, deliberation and interaction among themselves. After discussion, productive suggestions were incorporated appropriately in the UG and PG Curriculum and Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- 6.3.1. Review of 5th BoS meeting minutes.
- 6.3.2. NPTEL course for 2019 R students.
- 6.3.3. Value added Courses.
- 6.3.4. Confirmation of 3rd and 4th Sem UG Syllabus for 2021 regulation.

The Board Chairman Dr.J.Jasper Gnana Chandran thanked all the members for their valuable suggestions and sparing their precious time with us. The meeting came to an end with the note of thanks given by Mrs.A.Amala Manuela AP/EEE.

**CHAIRMAN
 BOARD OF STUDIES**



Attendance Sheet Table of Members

S.No.	Name of the BoS Member	Signature
1	Dr.J.Jasper Gnana Chandran Prof & Head Chairman BoS	
2	Dr.P.Maruthupandi, External	
3	Dr.M.Ramaswamy, External	
4	Dr. A.Ramkumar, External	
5	Mr.A.Kannan, External	
6	Mr.M.Gengaraj, External	
7	Dr.P.Annapandi, Internal	
8	Dr.A.Justin Diraviam, Internal	
9	Dr.A.Ravi, Internal	
10	Dr.A.Gnana Saravanan, Internal	



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11	Mr.J.Daniel Sathyaraj,Internal	
12	Mr.J.Antony Robinson,Internal	
13	Dr.R.RajaGopal,Internal	
14	Dr.J.Sivadasan,Internal	3. Sivadas
15	Mr .V.Vignesh Arumugam,Internal	
16	Dr.U.Muthuraman,Internal	
17	Mr.N.Subramanian,Internal	
18	Mr.S.Selvakumar,Internal	
19	Mr.N.V.Selvam,Internal	
20	Mrs.R.Aandal,Internal	
21	Mrs.S.Chithra,Internal	

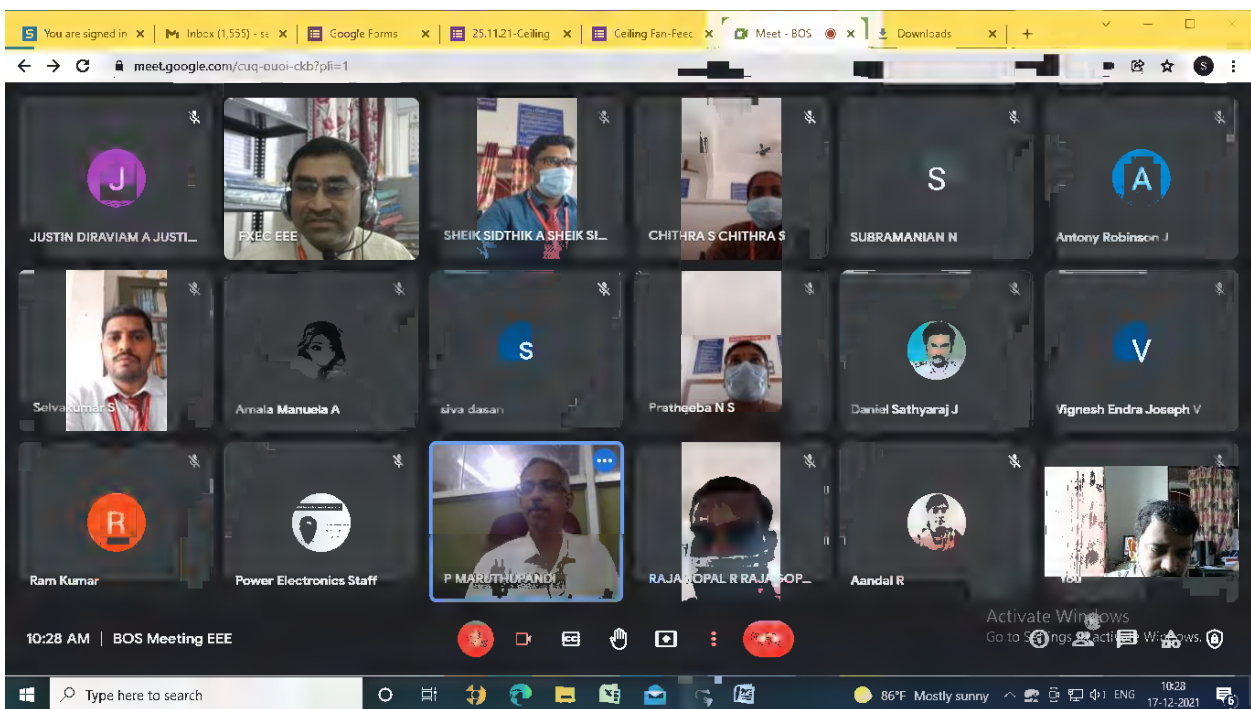


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22	Mrs.N.S.Pratheeba,Internal	
23	Mrs.A.Amala Maunela,Internal	
24	Mr.A.Sheik Siddik,Internal	

Department of EEE Engineering on 17th December 2021.

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10:29 AM | BOS Meeting EEE

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FRANCIS XAVIER ENGINEERING COLLEGE AN AUTONOMOUS INSTITUTION
Department of Electrical and Electronics Engineering
Welcomes BOARD OF STUDY MEMBERS
Presented by
Dr. J. JAGPETER CHANNA CHANDRAN, M. E., Ph. D.
Professor & Head
Department of Electrical & Electronics Engineering
Francis Xavier Engineering College
Thiruvethikkottai, Tamil Nadu

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AGENDA

- Review of 5th BoS meeting minutes
- NPTEL course for 2019 R students
- Value added Courses
- Confirmation of 3rd & 4th Sem UG syllabus for 2021 Regulation
- Any other Points for discussion

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5	V	21EE5601	Transmission and Distribution in Power Systems	The BoS members suggested to include Generation of Sine wave Power topic in line while framing the syllabus
		21EE5602	Microprocessors Microcontrollers and Its Applications	Suggested to change the name as "Microcontrollers and Its Applications"
		21CC3604	Design of Static and Rotating Machines	Suggested to change the name as "Design of Electrical machines"
		21EE5612	Microprocessors and Microcontrollers Programming Laboratory	Suggested to change the name as "Microcontrollers Laboratory"
6	VI	21EE6601	Computer Aided Design of Power System Analysis	Suggested to change the name as "Computer Aided Power System Analysis"
		21EE6102	High Voltage Engineering - PF II	Suggested to shift the course from PE III to PE V (VII Semester)

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		21EE6706	Industrial Drives - PE III	Suggested to change the name as "Industrial Drives and Control"
7	VII	21EE7706	Protection and Switchgear - PE VI	Suggested to shift the course from PE VI to PE III (VII Semester)
		21EE7708	Low Power VLSI Design - PE VI	Suggested to shift the course from PE VI to PE VII (VIII Semester)
8	VIII	21EE6702	Generation, Utilization and Conservation of electrical Energy - PE VIII	Suggested to shift the course from PE VIII to PE VI (VII Semester)

Action taken:
All the suggestions given by the BoS members were taken into the account and corrected.

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Action taken :
All the suggestions given by the BoS members were taken into the account and corrected.

10:44 AM | BOS Meeting EEE

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REC FXEC EEE is presenting

Course No.	Course Title	Duration	Start Date
noc22-ee40	Electromagnetic Waves in Guided and Wireless Media	8 Weeks	February 21, 2022
noc22-ee60	Statistical Signal Processing	12 Weeks	January 24, 2022
noc22-ee03	Fundamental of Power Electronics	12 Weeks	January 24, 2022
noc22-ee04	Principles of Signals and Systems	12 Weeks	January 24, 2022
noc22-ee05	Principles of Communication Systems - I	12 Weeks	January 24, 2022
noc22-ee06	Electrical Machines - II	12 Weeks	January 24, 2022
noc22-ee07	Network Analysis	12 Weeks	January 24, 2022
noc22-ee08	CMOS Digital VLSI Design	8 Weeks	January 24, 2022
noc22-ee09	Microprocessors and Interfacing	12 Weeks	January 24, 2022
noc22-ee10	Principles of Digital Communications	12 Weeks	January 24, 2022
noc22-ee11	Analog Electronic Circuits	12 Weeks	January 24, 2022
noc22-ee12	Microprocessors And Microcontrollers	12 Weeks	January 24, 2022
noc22-ee13	Fundamentals of semiconductor devices	12 Weeks	January 24, 2022

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VALUE ADDED COURSE
PHOTO-VOLTAIC SOLAR SYSTEM (Syllabus) - R 2019

- SOLAR ELECTRICITY
- CHARGE CONTROLLER ENERGY STORAGE SYSTEMS
- STAND ALONE PV SYSTEM
- GRID CONNECTED PV SYSTEMS

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SEMESTER - II								
Course Code	Course Name	Category	L	T	P	C	H	
THEORY COURSES								
21GE2101	Technical Communication	HSSM	2	0	0	2	2	
21GE2201	Partial Differential Equation and Application of Fourier Series	BS	3	1	0	4	4	
21EE2601	Electric Circuits and Network Analysis	PC	3	0	0	3	3	
THEORY CUM PRACTICAL COURSES								
21GE2501	Introduction to Computing Using Python	ES	3	0	1	4	4	
PRACTICAL COURSES								
21GE1512	Engineering Workshop	ES	0	0	4	2	4	
21EE2611	Analysis of Electrical Circuits Laboratory	PC	0	0	4	2	4	
PRACTICAL CUM THEORY COURSES								
21ME1513	Computed Aided Engineering Graphics	ES	2	0	4	4	6	
TOTAL			12	1	13	21	27	

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Microsoft Word Document Content:

Objectives

1. Basic concepts and laws of Electrical circuits
2. Apply the network theorems to compute various parameters of electric network.
3. Design a tank circuit and analyze the coupled circuits in series and parallel.
4. Analyze the R, L, C components for transient response.
5. Evaluate the two port network parameter like Z or Y or T or h.

UNIT I	INTRODUCTION TO BASIC ELECTRICAL CIRCUITS	9
Introduction to Circuit Elements - Ohm's Law and Kirchhoff's Laws - Voltage and Current Division - Analysis of circuits using Mesh and Nodal analysis-Introduction to AC circuits-complex power and power factor in ac circuits. Balanced three phase circuits- Star-Delta Transformation and Source Transformation.		
UNIT II	NETWORK TOPOLOGY AND NETWORK THEOREMS FOR DC CIRCUITS	9
Network terminology - Graph of a network - Incidence and reduced incidence matrices - Trees - Cofsets - Fundamental subsets - Edges matrix - Tie sets - Link currents and Tie set schedules - Power voltages and Output schedules.		
Network theorems - Superposition theorem, Thevenin's theorem, Norton's theorem, and Maximum power transfer theorem		
UNIT III	RESONANCE AND COUPLED CIRCUITS	9

11:04 AM | BOS Meeting EEE

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Microsoft Word Document Content:

Objectives

1. Basic concepts and laws of Electrical circuits
2. Apply the network theorems to compute various parameters of electric network.
3. Design a tank circuit and analyze the coupled circuits in series and parallel.
4. Analyze the R, L, C components for transient response.
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Network theorems - Superposition theorem, Thevenin's theorem, Norton's theorem, and Maximum power transfer theorem		
UNIT III	RESONANCE AND COUPLED CIRCUITS	9

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Semester IV

21EE4601	SIGNALS AND SYSTEMS	1	T	P	C
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Prerequisites for the course

- Transform equations – Laplace equations – Digital Signal Processing and Processors

Objectives

- To understand the basic properties of signal & systems and the various methods of classification
- To learn Laplace Transform & Fourier transform and their properties
- To know Z transform & DFT and their properties
- To characterize LTI systems in the Time domain and various Transform domains

Syllabus

UNIT - 1	INTRODUCTION OF SIGNALS AND SYSTEMS	12
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Pratheeba N S
Power Electron...
Ram Kumar
SUBRAMANIAN N
Amala Manuella A
Antony Robinso...
SHEIK SIDTHIK...
P MARUTHUPAN...
Rajakumar G
5 others
You

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2. Faculty 1 Dr.Sivadasan Mail ID: sivadasan@francisxavier.ac.in

21EE4605	MODERN ELECTRONICS MEASURING INSTRUMENTS	L	T	P	C
		3	0	0	3

Prerequisites for the course

- Physics for Electronics Engineers
- Analog Electronics Circuits

Objectives
To impart knowledge on

- Basic functional
- Fundamentals

FXEC EEE
P MARUTHUPAN...
Power Electron...
Aandal R
Ram Kumar
Rajakumar G
SHEIK SIDTHIK...
SUBRAMANIAN N
Pratheeba N S
Amala Manuella A
7 others
You

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UNIT V TRANSDUCERS AND DATA ACQUISITION SYSTEMS

Classification of transducers – Selection of transducers – Principle of operation of Resistance potentiometer-Resistive, capacitive & inductive Transducers – Piezoelectric, Hall effect, optical and digital transducers – Elements of data acquisition system – Smart sensors.

S.No	List of Experiments	Total Periods	CO
1	Displacement measurement using LVDT.	45	CO
2	Experimental verification of Wheatstone bridge.		CO5
3	Experimental verification of Kelvin double bridge.		CO3
4	Experimental verification of Maxwells inductance bridge.		CO3
5	Experimental verification of Schering bridge.		CO3
6	Calibration of ammeter and voltmeter.		CO1
7	Calibration of Wattmeter.		CO1
8	Calibration of single phase energy meter.		CO2
9	Measurements using cathode ray oscilloscope		CO4
Total Periods		45 Theory +30	

Suggestive Assessment Methods

11:54 AM | BOS Meeting EEE

REC FXEC EEE is presenting

SEMESTER - I								
Course Code	Course Name	Category	L	T	P	C	II	
21MA1253	Advanced Engineering Mathematics	BS	3	1	0	4	4	
21PE1601	Analysis and Design of Power Electronic Converter	PC	3	0	0	3	3	
21PE1602	Computer Aided Design of Power Electronics Circuits	PC	3	1	0	4	4	
21PE1603	Solid State DC Drives	PC	3	1	0	4	4	
21PE1604	Power Quality Analysis and Mitigation Techniques	PC	3	0	0	3	3	
21PE1605	Special Machines and Controllers	PC	3	0	0	3	3	
21PE1611	Design of Power Electronics Circuits Laboratory	PC	0	0	4	2	4	
TOTAL			18	3	4	23	25	

SEMESTER - II								
Course Code	Course Name	Category	L	T	P	C	H	
21PE2601	Generalized Machine Theory	PC	3	0	0	3	3	
21PE2601	Solid State AC Drives	PC	3	0	0	3	3	
21PE2601	Modern Control Theory	PC	3	1	0	4	4	
	Professional Elective -I	PE	3	0	0	3	3	
	Professional Elective -II	PE	3	0	0	3	3	
	Professional Elective -III	PE	3	0	0	3	3	
21PE2611	Solid state Drives and Control Laboratory	PC	0	0	4	2	4	
21PE2901	Innovative Project	EEC	0	0	4	2	4	
TOTAL			18	1	8	23	27	

12:04 PM | BOS Meeting EEE



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f /fxengg t /fxengg i /fx_ec in /fxengg
y /francisxavierengineeringcollege

Department of Electrical and Electronics Engineering

The screenshot shows a Google Meet window with a presentation slide. The slide content is as follows:

M.E. – POWER SYSTEMS ENGINEERING

REGULATIONS 2021

CHOICE BASED CREDIT SYSTEM

(I – IV SEMESTERS CURRICULUM)

The meeting interface shows a grid of participants on the right, including FXEC EEE, P.MARUTHUPAN..., Power Electron..., Aandal R, Ram Kumar, Rajakumar G, Amala Manuela A, SUBRAMANIAN N, Pratheeba N S, Annapandi P, 5 others, and You. The system tray at the bottom shows the time as 12:04 PM and the meeting name as BOS Meeting EEE.

The screenshot shows a Google Meet grid view with 15 participants. The participants are:

- Amala Manuela A
- FXEC EEE (video on)
- Power Electronics Staff
- Ram Kumar
- P.MARUTHUPANDI
- Rajakumar G
- SUBRAMANIAN N
- RAJAGOPAL R RAJAGOPAL R
- Selvakumar S
- Antony Robinson J
- Vignesh Endra Joseph V
- CHITHRA S CHITHRA S
- Selvakumar S
- You

The system tray at the bottom shows the time as 12:12 PM and the meeting name as BOS Meeting EEE.



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[y /francisxavierengineeringcollege](#)

Department of Electrical and Electronics Engineering

meet.google.com/cuq-ouqi-ckb7pli=1

REC

Amala Manuola A

Power Electronics Staff

Ram Kumar

P MARUTHUPANDI

Rajakumar G

SUBRAMANIAN N

RAJAGOPAL R RAJAGOPAL R

Selvakumar S

Antony Robinson J

Vignesh Endra Joseph V

CHITHRA S CHITHRA S

Selvakumar S

You

12:12 PM | BOS Meeting EEE

Activate Windows
Go to Settings to activate Windows.

Type here to search

89°F Mostly sunny

12:12
17-12-2021