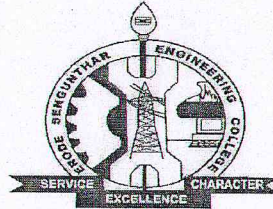


ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai,
Accredited by National Board of Accreditation (NBA), New Delhi &
National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade
PERUNDURAI -638 057, TAMILNADU, INDIA.



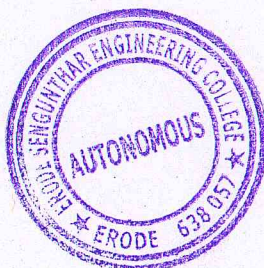
Department of Electrical and Electronics Engineering

8th BOARD OF STUDIES MEETING

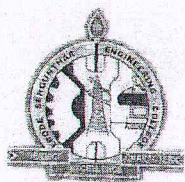
10th JULY 2024 @ 02:30 p.m.

ZOOM ONLINE MEET

<https://us06web.zoom.us/j/83093081259?pwd=Hi2H0HhLVGQAcBESBaKyna1tv8DaSK.1>



Dr. V.VENKATACHALAM, M.S., M.Tech., Ph.D.,
PRINCIPAL
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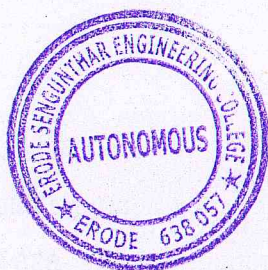
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF 8th BOARD OF STUDIES MEETING

Name of the Department : Electrical and Electronics Engineering
Name of the Board : Electrical and Electronics Engineering
Programmes : BE-Electrical and Electronics Engineering
ME-Power Electronics and Drives
Date, Time & Mode : 10.07.2024 – 02.30 PM & ONLINE
Zoom Link :
<https://us06web.zoom.us/j/83093081259?pwd=Hi2H0HhLVGQAcBESBaKynalTv8DaSK.1>
Meeting Number : 08

AGENDA OF THE MEETING

BoS /EEE 8.1	:	Welcoming new Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Electrical and Electronics Engineering.
BoS /EEE 8.2	:	Confirmation of the Minutes of 07 th Board of Studies Meeting and Action taken report of 7 th Board of Studies meeting.
BoS /EEE 8.3	:	Approval of curriculum for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023(Students admitted in 2024-25).
BoS /EEE 8.4	:	Approval of curriculum for the M.E. Power Electronics and Drives programme offered under Regulations 2023(Students admitted in 2024-25).
BoS /EEE 8.5	:	Approval of fifth and sixth semester syllabus for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023.
BoS /EEE 8.6	:	Approval of Syllabus for special electives considered to offer for Research scholars to take for their Course work examinations.
BoS /EEE 8.7	:	Approval of identified equivalent subjects to be included/exempted for the students readmitted from regulations R-2019 to regulations R-2023
BoS /EEE 8.8	:	Any other items

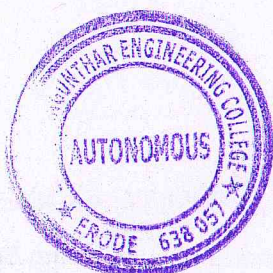


B. L.
Chairman - BoS
Dept. of EEE - ESEC

W
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Thudupathi, Perundurai, Erode -638 057.

The following members were present

Sl. No.	Name & Designation	Category
1	Dr. P. Selvan Professor and Head, Department of Electrical and Electronics Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman
2	Dr. S. Geetha Associate Professor, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore.	University Nominee
3	Dr. N. P. Subramaniam Associate Professor, Department of Electrical and Electronics Engineering, Puducherry Technological University, Puducherry.	External Experts (Academic)
4	Dr. M. Arun Professor/ Embedded Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore	
5	Dr. S. R. Sivarasu BEE Certified Energy Auditor(EA-27299) Managing Partner, Ram Kalam - Centre for Energy Consultancy and Training, Coimbatore	Representative from Industry/ Corporate sector
6	Er. Vijay Anandan, Research and Development Engineer – AI, Samsung Electro Mechanics, Bengaluru	Alumnus
7	Dr. M. Shyamalagowri, Associate Professor	Internal Members
8	Dr. R. Muthukumar, Associate Professor	
9	Dr. S. Karthick, Assistant Professor	
10	Dr. L. Anbarasu, Assistant Professor	
11	Dr. A. Johny Renoald, Assistant Professor	
12	E. Immanuvel bright, Assistant Professor	
13	S. Tamilselvi, Assistant Professor	
14	N. Jothipriya, Assistant Professor	
15	P. Karthikeyan, Assistant Professor	
16	K. Preetha, Assistant Professor	



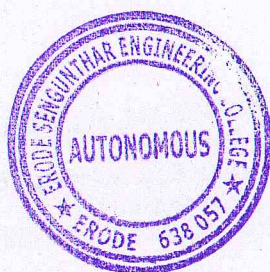
Dr. V.VENKATACHALAM, M.S.,M.Tech.,Ph.D.,
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BoS /EEE 8.1 :	<p>Welcoming new Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Electrical and Electronics Engineering.</p> <p>Discussion</p> <p>The Chairman of the Board of Studies welcomed all the members to the meeting for discussing proposed BE – Electrical and Electronics Engineering and ME – Power Electronics and Drives curriculum of first two semesters belongs to 2024-25 admitted students, syllabus of fifth & sixth semesters under the Regulations 2023, special electives for research program and identified equivalent subjects to be included/exempted for the students readmitted from regulations R-2019 to regulations R-2023. The members presented in the Board of Studies Meeting are given in Annexure I.</p>
BoS /EEE 8.2 :	<p>Confirmation of the Minutes of 7th Board of Studies Meeting and Action taken report of 7th Board of Studies meeting.</p> <p>Discussion</p> <p>The Chairman presented the Minutes of 7th Board of Studies Meeting which was held on 14.12.2023 and action taken report of the same.</p> <p>Resolution</p> <p>It is resolved to recommend the Minutes of 7th Board of Studies Meeting and action taken report of the same is submitted to the Academic Council for approval.</p>



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BoS /EEE 8.3 :	<p>Approval of curriculum for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023 (Students admitted in 2024-25).</p> <p>Discussion</p> <p>The Chairman, presented curriculum for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023 (Students admitted in 2024-25). The BoS members approved the same.</p> <p>Resolution</p> <p>It is resolved to recommend the curriculum for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023 (Students admitted in 2024-25) to the Academic Council for Approval.</p>
BoS /EEE 8.4 :	<p>Approval of curriculum for the M.E. Power Electronics and Drives programme offered under Regulations 2023 (Students admitted in 2024-25).</p> <p>Discussion</p> <p>The Chairman, presented curriculum for the M.E. Power Electronics and Drives programme offered under Regulations 2023 (Students admitted in 2024-25). The BoS members approved the same.</p> <p>Resolution</p> <p>It is resolved to recommend the curriculum for the M.E. Power Electronics and Drives programme offered under Regulations 2023 (Students admitted in 2024-25) to the Academic Council for Approval.</p>




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Approval of fifth and sixth semester syllabus for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023.

Discussion

The Chairman, presented the fifth and sixth semester syllabus for the B.E. Electrical and Electronics Engineering programme offered under Regulations 2023.

Dr. S. Geetha, suggested to update the text and reference book with latest edition. The Chairman agreed to update the same.

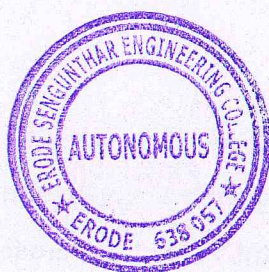
She suggested to remove apostrophe in RTOS in Unit V in 23ES501 – **Microcontroller and Embedded Design**. The Chairman agreed to remove the same.

She suggested the course outcome seems to be similar in 23EEX09 – **Special Electrical machines**. The Chairman agreed to update the same.

Dr. N. P. Subramaniam, suggested to change the course outcome “**Design**” with suitable blooms taxonomy verb wherever it is applicable. The Chairman agreed to change the same.

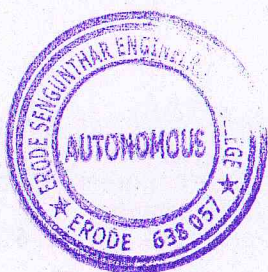
He suggested to remove the word “**Experiment on**” in the experiment in 23ES601 - **Renewable Energy Sources**. The Chairman agreed to remove the same.

He suggested to change the subject title as “**Selection of Motor and Power Converter for Electric Vehicle**” in place of Design of Motor and Power Converters for Electric Vehicles and also change the title the title as “**Infrastructure of Electric Vehicle Charging System**” instead of Design of Electric Vehicle Charging System for the course code 23EEX26 and 23EEX27 respectively.



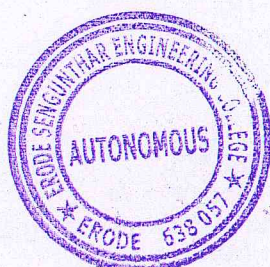
Dr. V.VENKATACHALAM, M.S.,M.Tech.,Ph.D.,
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BoS /EEE 8.5	<p>Dr. M. Arun, suggested to incorporate industry related topics in 23EE502 – Transmission and Distribution. The Chairman agreed to incorporate the same.</p> <p>He suggested to make uniformity in experiment title for all laboratory courses and also suggested to replace “Name of the Experiment” with “Topics to be covered”. The Chairman replied to consider the same after discuss with academic council members.</p> <p>He suggested to change the title 23EEX28 – “Testing of Electric Vehicle” as 23EEX28 – “EMC and EMI of Electric Vehicles”. The Chairman agreed to change the same.</p> <p>Er. Vijay Anandan, enquired about availability of C programming in the curriculum. The Chairman replied that, it is available in 23ES401 – Programming in C and Data Structures.</p> <p>He suggested to incorporate practical oriented content/Hands on training in 23EEX06 – Neural Network & Fuzzy Logic. The Chairman agreed to consider the same by offering the same with MATLAB-SIMULINK tools.</p> <p>Dr. N. P. Subramaniam and Dr. M. Arun., suggested to change the Unit V title as “Robotics and Automation” instead of “Embedded System And Robotics”</p> <p>Dr. S. Geetha and Dr. M. Arun suggested to replace the subject 23EEX21 – Embedded and Real Time System with other subject. The Chairman removed the same and inserted the new subject 23EEX21 – Real Time Operating System</p> <p>Resolution</p> <p>It is resolved to recommend the BE – Electrical and Electronics Engineering fifth and sixth semester syllabus under Regulations 2023 to the Academic Council for Approval.</p>
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BoS /EEE 8.6 :	<p>Approval of Syllabus for special electives considered to offer for Research scholars to take for their Course work examinations.</p> <p>Discussion</p> <p>The Chairman, presented Syllabus for special electives considered to offer for Research scholars to take for their Course work examinations.</p> <p>The BoS members approved the same.</p> <p>Resolution</p> <p>It is resolved to recommend the presented Syllabus for special electives considered to offer for Research scholars to take for their Course work examinations to the Academic Council for Approval.</p>
BoS /EEE 8.7 :	<p>Approval of identified equivalent subjects to be included/exempted for the students readmitted from regulations R-2019 to regulations R-2023.</p> <p>Discussion</p> <p>The Chairman, presented the equivalent subjects to be included/exempted for the students readmitted from regulations R-2019 to regulations R-2023.</p> <p>Resolution</p> <p>It is resolved to recommend the presented equivalent subjects to be included/exempted for the students readmitted from regulations R-2019 to regulations R-2023 to the Academic Council for Approval.</p>
BoS /EEE 8.8 :	<p>Any other items</p> <p>Common points suggested by the members as concluding remark.</p> <p>Discussion</p> <p>Suggested to update the text and reference book with latest edition.</p> <p>The Chairman of Board of Studies agreed and assured to incorporate the changes suggested by the members wherever possible.</p> <p>The Chairman of Board of Studies thanked all the members for their valuable suggestions and coordination.</p>


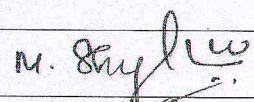
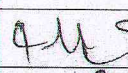
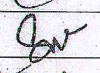
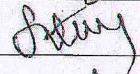
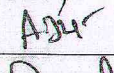
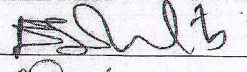
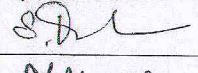
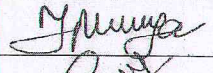

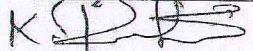


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Chairman - BoS
Dept. of EEE - ESEC

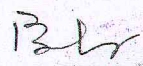
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Thudupathi, Perundurai, Erode -638 057.


ANNEXURE – I

The following members presented in the Board of Studies Meeting

Sl. No.	Name & Designation	Category	Signature
1	Dr. P. Selvan Professor and Head, Department of Electrical and Electronics Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman	
2	Dr.S.Geetha Associate Professor, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore.	University Nominee	ON-LINE
3	Dr.N.P.Subramaniam Associate Professor, Department of Electrical and Electronics Engineering, Puducherry Technological University, Puducherry.	External Experts (Academic)	
4	Dr. M. Arun Professor/ Embedded Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore		
5	Dr.S.R.Sivarasu BEE Certified Energy Auditor(EA-27299) Managing Partner, Ram Kalam - Centre for Energy Consultancy and Training, Coimbatore	Representative from Industry/ Corporate sector	
6	Er. Vijay Anandan, Research and Development Engineer – AI, Samsung Electro Mechanics, Bengaluru	Alumnus	
7	Dr. M. Shyamalagowri, Associate Professor	Internal Members	
8	Dr. R. Muthukumar, Associate Professor		
9	Dr. S. Karthick, Assistant Professor		
10	Dr. L. Anbarsu, Assistant Professor		
11	Dr. A. Johny Renoald, Assistant Professor		
12	E. Immanuvel bright, Assistant Professor		
13	S. Tamilselvi, Assistant Professor		
14	N. Jothipriya, Assistant Professor		
15	P. Karthikeyan, Assistant Professor		
16	K. Preetha, Assistant Professor		



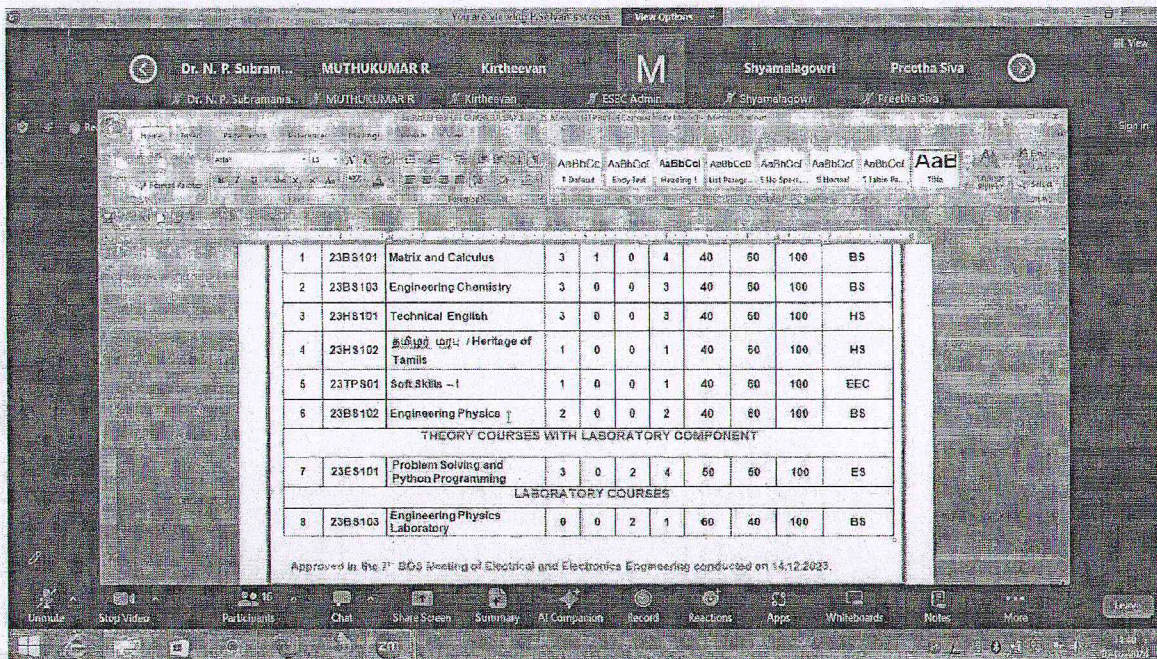

Chairman - BoS
Dept. of EEE - ESSEC


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ANNEXURE – II
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Screen shots of 8th Board of Studies Meeting

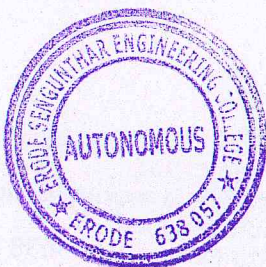
Name of the Department : Electrical and Electronics Engineering
Name of the Board : Electrical and Electronics Engineering
Programmes : BE-Electrical and Electronics Engineering
ME-Power Electronics and Drives
Date, Time & Mode : 10.07.2024 – 02.30 PM & ONLINE
Zoom Link :
<https://us06web.zoom.us/j/83093081259?pwd=Hi2H0HhLVGQAcBESBaKyna1tv8DaSK.1>
Meeting Number : 08



The screenshot shows a Zoom meeting interface with a presentation slide. The slide contains a table of courses and their credits. The table is divided into two sections: 'THEORY COURSES WITH LABORATORY COMPONENT' and 'LABORATORY COURSES'. The table has columns for course number, course name, and credits. The courses listed are:

Sl. No.	Course Name	Credits
1	23BS101 Matrix and Calculus	3
2	23BS103 Engineering Chemistry	3
3	23HS101 Technical English	3
4	23HS102 தமிழ் மரபு / Heritage of Tamil	1
5	23TPS01 Soft Skills -I	1
6	23BS102 Engineering Physics	2
THEORY COURSES WITH LABORATORY COMPONENT		
7	23ES101 Problem Solving and Python Programming	3
LABORATORY COURSES		
8	23BS103 Engineering Physics Laboratory	0

Approved in the 7th BOS Meeting of Electrical and Electronics Engineering conducted on 14.12.2023.



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Zoom Meeting

Dr. N. P. Subram... MUTHUKUMAR R Kirtheeran M Shyamalagowri Preetha Siva

Dr. N. P. Subramaniam MUTHUKUMAR R Kirtheeran ESEC Aditi Shyamalagowri Preetha Siva

Recording

Home View Share Screen Chat Help

Power Electronics and Drives

Minimum credits to be earned : 70

SEMESTER I

S.No.	Course Code	Course	L	T	P	C	Maximum Marks			Category
							CA	ES	Total	
THEORY COURSES										
1	23MPE11	Applied Mathematics	3	1	0	4	40	60	100	PC
2	23MPE12	Power Quality Problems and Solutions	3	0	0	3	40	60	100	PC
3	23MPE13	Analysis and Design of Power Converters	3	0	0	3	40	60	100	PC
4	23MPE14	Power Semiconductor Devices	3	0	0	3	40	60	100	PC
5	23MPE15	System Theory	3	1	0	4	40	60	100	PC
6	23MPE16	Research Methodology and IPR	3	0	0	3	40	60	100	PC
LABORATORY COURSES										
7	23MPE16	Power Electronic Circuits Laboratory	0	0	4	2	80	40	120	PC
TOTAL			18	2	4	22	300	400	700	

SEMESTER II

Zoom Meeting

Arun M SR Sivasu Vijay Anandan Dr.S.Geetha

Dr. S. KARTHIK Arun M SR Sivasu Vijay Anandan Dr.S.Geetha

Recording

Home View Share Screen Chat Help

Power Electronics and Drives

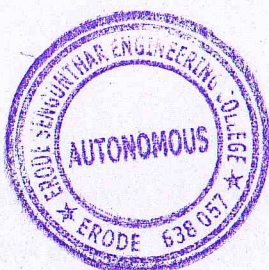
Minimum credits to be earned : 70

SEMESTER I

S.No.	Course Code	Course	L	T	P	C	Maximum Marks			Category
							CA	ES	Total	
THEORY COURSES										
2	23MPE12	Power Quality Problems and Solutions	3	0	0	3	40	60	100	PC
3	23MPE13	Analysis and Design of Power Converters	3	0	0	3	40	60	100	PC
4	23MPE14	Power Semiconductor Devices	3	0	0	3	40	60	100	PC
5	23MPE15	System Theory	3	1	0	4	40	60	100	PC
6	23MPE16	Research Methodology and IPR	3	0	0	3	40	60	100	PC
LABORATORY COURSES										
7	23MPE16	Power Electronic Circuits Laboratory	0	0	4	2	80	40	120	PC
TOTAL			18	2	4	22	300	400	700	

SEMESTER II

S.No.	Course Code	Course	L	T	P	C	Maximum Marks			Category
							CA	ES	Total	
1	23MPE21	Analysis and Design of Power Inverters	3	0	0	3	40	60	100	PC
2	23MPE22	Solid State Drives and Control	3	0	0	3	40	60	100	PC
3	23MPE23	Power Converters for Renewable Energy	3	0	0	3	40	60	100	PC
4	23MPE24	Modeling and Analysis of Electrical Machines	3	1	0	4	40	60	100	PC
5		Professional Elective - I	3	0	0	3	40	60	100	PE
6		Professional Elective - II	3	0	0	3	40	60	100	PE



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Zoom Meeting

Dr. S. KARTHICK, Arun M, S R Sivarasu, Vijay Anandan, Dr. S. Geetha

Recording

23EE501 POWER ELECTRONICS

Department	ELECTRICAL AND ELECTRONICS ENGINEERING	R 2023	Semester V	PC
Course Code	Course Name	Hours/Week	Credit	Total Hours
23EE501	POWER ELECTRONICS	3 0 0 3	45	100

Course Objective (s): The purpose of learning this course is to

- Understand the different types of power semi-conductor devices and their switching characteristics.
- Illustrate the operation, characteristics and performance parameters of controlled rectifiers.
- Understand the operation, switching techniques and basic topologies of DC-DC switching regulators.
- Understand the different modulation techniques of pulse width modulated inverters and to understand the harmonic reduction methods.
- Illustrate the operation of AC-AC converters.

Course Outcomes: At the end of this course, learners will be able to

- Express characteristics of SCR, BJT, MOSFET and IGBT.
- Design a suitable power converter for given dc load specification from AC input.
- Design and analyze of various DC - DC converters.
- Design and analyze the single and three phase inverters.
- Analyze different ac to ac converters.

Unit I POWER SEMI-CONDUCTOR DEVICES 9

Introduction to Power Electronics- Construction, Principle of operation - Static and dynamic characteristics of Power diode, power BJT, SCR, TRIAC, Power MOSFET and IGBT, IGCT-Two Transistor Analogy of Thyristor- Thyristor Protection.

Unit II PHASE CONTROLLED CONVERTERS 9

Single phase and three phase half and fully controlled converters with R, RL, RLE Load - Estimation of average load voltage and average load current for continuous current operation - Effect of source inductance - single phase and three phase dual converter.

Unit III DC-DC CONVERTERS 9

Principle of operation of DC-DC Converter/Chopper - 1st, 2nd and 4th quadrant DC-DC Chopper circuits - Buck, Boost, Buck-Boost converter, Applications.

Unit IV INVERTERS 9

Zoom Meeting

Dr. S. KARTHICK, Arun M, Dr. N. P. Subramaniam, Dr. S. Geetha

Recording

23EE501 POWER ELECTRONICS

Department	ELECTRICAL AND ELECTRONICS ENGINEERING	R 2023	Semester V	PC
Course Code	Course Name	Hours/Week	Credit	Total Hours
23EE501	POWER ELECTRONICS	3 0 0 3	45	100

Course Objective (s): The purpose of learning this course is to

- Understand the different types of power semi-conductor devices and their switching characteristics.
- Illustrate the operation, characteristics and performance parameters of controlled rectifiers.
- Understand the operation, switching techniques and basic topologies of DC-DC switching regulators.
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Course Outcomes: At the end of this course, learners will be able to

- Express characteristics of SCR, BJT, MOSFET and IGBT.
- Design a suitable power converter for given dc load specification from AC input.
- Design and analyze of various DC - DC converters.
- Design and analyze the single and three phase inverters.
- Analyze different ac to ac converters.

Unit I POWER SEMI-CONDUCTOR DEVICES 9

Introduction to Power Electronics- Construction, Principle of operation - Static and dynamic characteristics of Power diode, power BJT, SCR, TRIAC, Power MOSFET and IGBT, IGCT-Two Transistor Analogy of Thyristor- Thyristor Protection.

Unit II PHASE CONTROLLED CONVERTERS 9

Single phase and three phase half and fully controlled converters with R, RL, RLE Load - Estimation of average load voltage and average load current for continuous current operation - Effect of source inductance - single phase and three phase dual converter.

Unit III DC-DC CONVERTERS 9

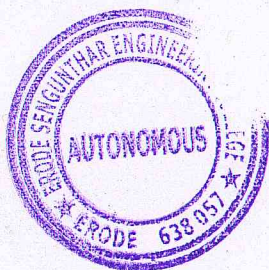
Principle of operation of DC-DC Converter/Chopper - 1st, 2nd and 4th quadrant DC-DC Chopper circuits - Buck, Boost, Buck-Boost converter, Applications.

Unit IV INVERTERS 9

Participants (15)

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