



SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]
Vattamalaipalayam, N.G.G.O. Colony Post,
Coimbatore – 641022.

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26.02.2026

Ref: SREC/23rd BOS/2025-2026/02

CIRCULAR

The Chairpersons of various Boards of Studies are requested to include the following as **common minutes** in the 23rd BoS meeting minutes in addition to the Board minutes of the respective departments.

UG Programmes

RR2020 & R2025

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.
- It is resolved that Regulation 2025 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2025.
- It is resolved that the Curriculum and Syllabi be approved for the following new courses

S.No	Course Code	Course Title	Credits
1			

- It is resolved that the syllabi for the following new Professional Core courses under (Revised) Regulations 2025 be approved and passed.

25XXXX - XXXXX

- It is resolved that the syllabi for the following new Professional Elective courses under Regulations 2025 be approved and passed.

25XXXX - XXXXX

- It is resolved that the syllabi for the following new Open Elective courses under Regulations 2025 be approved and passed.

25XXXX - XXXX

- It is resolved that the syllabi for the following new Multidisciplinary Minor courses (MMC) under Regulations 2025 be approved and passed. . (If applicable)

25XXXXX - XXXX

- It is resolved that the syllabi for the following new Ability Enhancement courses (AEC) under Regulations 2025 be approved and passed. (If applicable)

25XXXXX - XXXX

- It is resolved that the syllabi for the following new Skill Enhancement courses (SEC) under Regulations 2025 be approved and passed. . (If applicable)

25XXXXX - XXXX

- It is resolved that the syllabi for the following new Value Added courses (VAC)) under Regulations 2025 be approved and passed. . (If applicable)

25XXXXX - XXXX

- It is resolved that the syllabi for the following new Liberal Arts courses (LAC)) under Regulations 2025 be approved and passed. . (If applicable)

25XXXXX - XXXX

- It is resolved that the following new one credit courses will be included under Regulations 2025 for B.E. _____ programme. - (if applicable).

- It is resolved that the following NPTEL courses are approved for credit transfer during Apr / May 2026. - (if applicable).

- It is resolved that the Result Analysis for the Academic Year 2025 – 2026 (Semesters VII/ V/ III) are approved and passed.

- It is resolved that the new courses and its syllabi be approved for the Honors / Minor in B.E. _____ degree programme – **if any**

S.No	Course Code	Course Title	Credits	Mode of Delivery	Offered by
1	25XXXXX			Class / NPTEL	SREC / Premier Institution / Industry
2					

- It is resolved that the following Honors/Minor courses are offered during the odd semester of Academic Year 2025 – 2026 and the following eligible students of RR2020 be approved for the Honors / minora in B.E. _____ degree programme – **if any**

- It is resolved that the following Mandatory courses be approved for the student in B.E. _____ degree programme

Batch: 2022 - 2026

S.No	Mandatory Course	Course Code	No. of Students Completed
1.			
2.			

Batch: 2023 - 2027

S.No	Mandatory Course	Course Code	No. of Students Completed
1.			
2.			

Batch: 2024 - 2028

S.No	Mandatory Course	Course Code	No. of Students Completed
1.			
2.			

Batch: 2025 - 2029

S.No	Mandatory Course	Course Code	No. of Students Completed
1.			
2.			

- It is resolved that the following students had completed 4/6 weeks of Internship/Inplant training be approved for the student in B.E. _____ degree programme

Batch: 2022 - 2026

S.No	Industry	No. of Students Completed
1.		
2.		

Batch: 2023 - 2027

S.No	Industry	No. of Students Completed
1.		

Batch: 2024 - 2028

S.No	Industry	No. of Students Completed
1.		
2.		

- Readmitted / transferred student details (if applicable) – to be included.
- Credit balance for the Readmitted / transferred students (if applicable) – to be included.

Note:

- ✓ The template of BOS Minutes preparation is attached for your kind perusal.





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MINUTES OF THE 22nd BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 08.11.2025 AT 02.30 PM CENTRE OF EXCELLENCE – E MOBILITY LABORATORY.

The following members attended the meeting.

1. **Dr. S. Allirani**, Professor & Head – Chairperson, BoS – EEE
2. **Dr. P. Subha Karuvelam**, (University Nominee), Professor, Department of EEE, Government College of Engineering, Tirunelveli.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Senior Project Manager, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. K. Elanseralathan**, (Academic Expert), Professor & Head, Department Electrical and Electronics Engineering, Puducherry Technological University, Puducherry.
5. **Dr. S. Kumaravel**, (Subject Expert from other University), Associate Professor, Department of Electrical Engineering, National Institute of Technology, Calicut, Kerala.
6. **Dr. A. Soundarrajan**, Professor & Principal, SREC
7. **Dr. R. Shanmugasundaram**, Professor / EEE, SREC
8. **Dr. A. Sakthivel**, Professor & Head – First Year Programme, SREC
9. **Dr. K. Uthayarani**, Professor, Department of Physics, SREC
10. **Dr. K. Sebasthi Rani**, Associate Professor / EEE, SREC
11. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
12. **Mr. V. Gopu**, Assistant Professor (Sl.G) / EEE, SREC
13. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
14. **Dr. M. Chindamani**, Assistant Professor (Sl.G) / EEE, SREC
15. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
17. **Mrs. R. K. Ragavapriya**, Assistant Professor (Sl.G) / EEE, SREC
18. **Dr. M. Ezhilarasi**, Assistant Professor (Sl.G) / EEE, SREC
19. **Dr. C. Praveenkumar**, Assistant Professor (Sl.G) / EEE, SREC
20. **Dr. D. Indhumathy**, Assistant Professor (Sl.G) / Mathematics, SREC
21. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Members in absentia

1. **Mr. K. Jagadeesh**, (Alumni Member), Deputy General Manager, M/s. Schneider Electric India Pvt. Ltd, Coimbatore.

Professor Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 22nd BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

Professor Dr. S. Allirani, Chairperson, Board of Studies, presented and disseminated the Vision and Mission of the Institute and the Department, along with the Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), and Program Outcomes (POs) to the Board of Studies members.

ITEM No.1:

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.

ITEM No.2:

- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2025.

(A) For Credit Transfer under Professional Electives

S. No	Course Code	Course Title	Equivalent Credits	Course Duration in weeks	Equivalent Professional Elective in SREC Curriculum
1.	OPE49	Design of Electric Motor	3	12	-
2.	OPE50	Charging Infrastructure	3	12	20EE2E29- Charging Infrastructure for Electric Vehicles

(B) For Credit Transfer under Open Electives

S. No	Course Code	Course Title	Equivalent Credits	Course Duration in weeks	Equivalent Open Elective in SREC Curriculum
1.	OOE51	Mental Health and Wellbeing	3	12	-
2.	OOE52	Machine Learning for Core Engineering Disciplines	3	12	20AD2E51- Python Frameworks for Machine Learning

S. No.	NPTEL Code	Course Code	Title of the Course	Batch	Number of Students got Benefited
1	noc25-cs44	OOE2	Introduction to Internet of	2023-2027	01

			Things	2024-2028	01
2	noc25-ee76	OPE13	Sensors and Actuators	2023-2027	06
				2022-2026	06
3	noc25-ee79	OPE37	Smart Grid: Basics to Advanced Technologies	2023-2027	34
				2022-2026	22
Total No. of Students got benefited					70

ITEM No.3:

- It is resolved that the following courses are approved for Direct Self-Study Course during June 2025 to December 2025

S. No	Course	Semester	Batch	No of Students
1	20EE2E14 - HVDC and FACTS Systems	V	2023 - 2027	38

ITEM No.4:

- It is resolved that the Result Analysis for the Academic Year 2024 – 2025 (Semesters VIII / VI / IV / II) are approved and passed.

Programme: UG – EEE

Batch: 2021-2025

Semester: VIII

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 97

Overall Pass Percentage : **98.98%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE277- Project Work	98	97	1	98.98
2	20EE279 - Internship	98	98	0	100

Programme: UG – EEE

Batch: 2022-2026

Semester: VI

No of Students Appeared in all the subjects : 97

No of Students passed in all the subjects : 76

Overall Pass Percentage : **78.35%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE211 - Electric Drives and Control	97	92	5	94.85
2	20EE212 - Power System Analysis	97	80	17	82.47

3	20EE213 - Power System Protection and Switchgear	97	92	5	94.85
4	20EE214 - Renewable Energy	97	94	3	96.91
5	20EE215 - Smart Grid and Data Analytics	97	94	3	96.91
6	20EE216 - Project and Finance management	97	95	2	97.94
7	20EE2E08 - Special Electrical Machines	47	47	0	100
8	20EE2E35 - Electrical Estimation and Costing	50	48	2	96
9	20EE2E36 - Sustainable Energy and Development Models	39	39	0	100
10	20EE2E23 - Grid Integrating Techniques and Challenges	3	3	0	100
11	20EE273 - Power System Simulation Laboratory	97	96	1	98.97
12	20EE274 - Power Electronics and Drives Laboratory	97	96	1	98.97
13	20EE276 - Mini Project II	97	96	1	98.97
14	NOC24-EE127 - Electronic System Design: Hands-on Circuits and PCB Design with CAD Software	2	2	0	100
15	NOC24-EE108 - Enclosure design of Electronics Equipment	1	1	0	100
16	NOC24-GE54 - Sustainable Power Generation System	3	3	0	100
17	NOC24-EE124 - Smart Grid: Basics to Advanced Technologies	7	7	0	100

Programme: UG – EEE

Batch: 2023-2027

Semester: IV

No of Students Appeared in all the subjects : 103

No of Students passed in all the subjects : 80

Overall Pass Percentage : **77.67%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA218 - Probability, Statistics and Numerical Methods	104	92	12	88.46
2	20EE204 - DC Machines and Transformers	104	95	9	91.35
3	20EE205 - Control Systems	104	100	4	96.15
4	20EI253 - Model Based System Design	104	102	2	98.08
5	20CS243 - Data Structures and Algorithm Analysis	104	97	7	93.27
6	20CS201 - Disruptive Technologies	104	104	0	100
7	20EE271 - DC Machines and Transformers Laboratory	104	104	0	100

8	20EI278 - Control Systems Laboratory	104	104	0	100
9	20CS292 - Data Structures and Algorithm Analysis Laboratory	104	98	6	94.23
10	20EE275 - Mini Project – I	104	104	0	100
11	20EE235 - Positive Psychology	74	74	0	100
12	20EE2E07 - Electrical and Industrial Safety Engineering	40	40	0	100
13	20BM2E31 - Healthcare Technology	6	6	0	100
14	20CE2E60 - Low Cost Housing	15	15	0	100
15	20ME2E52 - Engineering Economics	21	20	1	95.24
16	NOC23-CS35 - Introduction to Internet of Things	24	24	0	100
17	20AD2E51 - Python Frameworks for Machine Learning	2	2	0	100
18	NOC24-CS20 - The Joy of Computing Using Python	2	2	0	100
19	20IT2E54 - Introduction To Data Science	4	4	0	100
20	20EI2E13 - Automation and Machine Vision Systems	12	12	0	100
21	20EI219 - Leadership Excellence and Development	5	5	0	100
22	20CS2E64 - Machine Learning	2	2	0	100
23	20AE2E52 - Fundamentals of Applied Aeronautical Sciences	7	7	0	100
24	20CH2E54 - Environmental Science and Sustainability	4	3	1	75
25	20EC204 - Digital System Design	1	1	0	100
26	20EN2E02 - Art of Speaking	2	2	0	100
27	20CS2E65 - Cyber Security	10	10	0	100
28	20EC2E57 - Joy of Electronics	8	8	0	100
29	20EN2E01 - Life Skills and Personality Development	5	5	0	100
30	NOC24-EE124 - Smart Grid: Basics to Advanced Technologies	1	1	0	100
31	20RA2E55 - Vision for Robots	2	2	0	100
32	NOC24-EE127 - Electronic System Design: Hands-on Circuits and PCB Design with CAD Software	1	1	0	100
33	20MA209 - Vedic Mathematics	2	2	0	100
34	20CH2E52 - Green Chemistry for Engineers	2	2	0	100
35	20EC2E51 - Consumer Electronics	1	1	0	100

Programme: UG – EEE**Batch: 2024-2028****Semester: II**

No of Students Appeared in all the subjects : 91

No of Students passed in all the subjects : 70

Overall Pass Percentage : **76.92%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA204 - Integral and Vector Calculus	91	79	12	86.81
2	20EC201 - Electron Devices	91	89	2	97.8
3	20EE201 - Electric Circuits	91	83	8	91.21
4	20EI251 - Sensor and Instrumentation	91	89	2	97.8
5	20HS210 - Intermediate English for Engineering	69	69	0	100
6	20IT241 - Programming in Python	91	78	13	85.71
7	20BS270 - Basic Sciences Laboratory	91	91	0	100
8	20EE270 - Electric Circuits and Electron Devices Laboratory	91	91	0	100
9	20IT291 - Programming in Python Laboratory	91	91	0	100
10	20HS204 - Basic Japanese	5	5	0	100
11	20HS209 - Advanced Business communication	15	15	0	100
12	20HS203 - Basic German	2	2	0	100

ITEM No.5:

- It is resolved that the following Honors courses are offered during the odd semester of Academic Year 2025 – 2026 and the following eligible students be approved for the Honors in B.E. Electrical and Electronics Engineering programme.

Specialization Course Details	Course Code and Title	Register No. of the Candidate	Name
Batch: 2022 – 2026 (Semester III)			
Electric Vehicles Specialization	20EE2E29 - Charging Infrastructure for Electric Vehicles	71812203011	Deepakkumar R
		71812203013	Dhanya R
		71812203014	Dharanidharan G
		71812203015	Divya Rakshana M R
		71812203025	Hariharan V S
	20EE2E30 - Drive Train	71812203028	Hitesh Balaji N
		71812203032	Joselyn P

	Technologies and Controls	71812203041	Lohith S
		71812203104	Moneesha S S
		71812203107	Nithes Kumar J
		71812203113	Pavithra S
		71812203141	Vishwakanth K N
		71812203145	Sanjay B
Batch: 2023 – 2027 (Semester I)			
Electric Vehicles Specialization	20EE2E25 - Vehicle Dynamics and Engineering	71812303001	Aasai S
		71812303004	Abirami B
		71812303013	Aswitha A
		71812303015	Charu M G
		71812303016	Darshan S
		71812303026	Gajendra Acharya S
		71812303029	Gopiraja M
		71812303038	Kamlesh A
	20EE2E26 - Energy Storage Systems	71812303042	Kisshore N
		71812303048	Dipendra Mahato
		71812303101	Madhusa R
		71812303109	Nibisha Robinson
		71812303111	Piriyatarshan D
		71812303116	Ram Harish S
		71812303118	Renjive Paul J
		71812303128	Simmanarasimman S

ITEM No.6:

- It is resolved that the following Mandatory courses be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

(a) Personality and Character Development

Course Code	No. of Students Completed
Batch: 2022 – 2026	
20MC031 - Association of Electrical and Electronics Engineering	16
20MC201 - Sports and Games	07

20MC208 - Soft Skills (Leadership and Workplace Etiquette)	55
20MC210 - Science Association	16
20MC214 - Philatelic Club	04
Batch: 2023 – 2027	
20MC201 - Sports and Games	06
20MC202 - Empowerment through Yoga- Yoga & Meditation Club	04
20MC204 - National Service Scheme	18
20MC205 - Youth Red Cross	04
20MC208 - Soft skills	01
20MC209 - English Literary Society	05
20MC210 - Science Association	02
20MC212 - Tamil Mandram	09
20MC213 - Renewable Energy Club	07
20MC215 - Phorartz Club	01
20MC216 - Quiz Club	02
20MC217 - Fine Arts club	05
20MC218 - Reading Club	02
20MC220 - Robo Club	03
20MC222 - YI Yuva	09
20MC219 - Red Ribbon Club	01
20MC209 - English Literary Society	02
20MC220 - Roboclub	01
20MC031 - Electrical and Electronics Engineering Technical Association	22
Batch: 2024 – 2028	
20MC201 - Sports and Games	01
20MC204 - National Service Scheme (Unit-I)	15
20MC205 - Youth Red Cross	01
20MC208 - Soft Skills (Leadership and Workplace Etiquette)	01
20MC202 - Empowerment through Yoga- Yoga & Meditation Club	01
20MC203 - National Cadet Corps	02
20MC210 - Science Association	04

20MC212 - Tamil Mandram	05
20MC213 - Renewable Energy Club	12
20MC218 - Reading Club	08
20MC215 - Phorartz club	04
20MC222 - Yi YUVA-SREC	20
20MC209 - English Literary Society	03
20MC217 - Fine Arts Club	01
20MC221 - UYIR Club	07
20MC216 - Quiz Club	05

(b) Technical Certification Courses: 20MC275- Technical Certification Course

Plat form	Name of the certification course	No. of Students Completed
Batch: 2022 – 2026		
IIT Bombay	e-Sim Spoken Tutorial	30
IIT Bombay	Scilab Spoken Tutorial	10
NPTEL	Sensors And Actuators	2
NPTEL	Introduction to Industry 4.0 and Industrial Internet of Things	1
NPTEL	Introduction to Internet of Things	6
NPTEL	Sustainable Power Generation system	8
NPTEL	DC Microgrid and Control System	3
SWAYAM	Introduction to Electric and Hybrid Vehicle	1
Stepik	Engineering of the Future	4
Stepik	Introduction to Computer Science & OOP: Python	5
Study section	Microsoft Excel (Foundation)	2
Google	Fundamentals of Digital Marketing	1
English certificate	EF certificate	1
The Open University, CISCO	Internet of Everything	25
Batch: 2023 – 2027		
NPTEL	Internet of Things	2
NPTEL	Smart Grid: Basics to Advanced Technologies	8

NPTEL	Introduction to Internet of Things	2
NPTEL	Sensors and Actuators	1
Open Learn	Internet of everything	16
Open Learn	Introduction to cyber security: Stay safe online	13
Spoken Tutorial	eSim Training	20
Spoken Tutorial	Python 3.4.3	1

ITEM No.7:

- It is resolved that the following students had completed 4/6 weeks of Internship/Inplant training be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

S. No	Company Details	No. of Students Completed
Batch: 2022 - 2026		
1	TANGEDCO, Erode	2
2	Tamil Nadu Newsprint and Papers Limited (TNPL), Karur	3
3	Steel Authority of India Limited (SAIL) Salem Steel Plant, Salem	12
4	NLC India Ltd, Neyveli	3
5	Pricol Engineering Industry Private Limited, Coimbatore	3
6	Roots Industries India Limited Coimbatore	4
7	Salzer Electronics Limited, Coimbatore.	16
8	Versa Drives Private Limited, Coimbatore	5
9	Texmo Industries, Coimbatore	6
10	Aquasub Engineering, Coimbatore	1
11	Taro Pumps Texmo Industries, Coimbatore	2
12	Lakshmi Machine Works Limited - MTD, CBE	2
13	Gayathiri Calibration Systems, Coimbatore	1
14	Best Engineers Pumps Pvt Ltd, Coimbatore	2
15	Balaji Electronics, Coimbatore	1
16	Lams Automation Private Limited	3
17	Electric Loco Shed, Erode	4
18	Ananth Power Engineers, Rajapalayam	1
19	Pentagon Switchgear Private Limited, CBE	4

20	Sakthi Sugars Limited, Bhavani	3
21	RS Windtech Engineers Private Limited, Badrakaaliputhur	1
22	RPM Automation, Coimbatore	3
23	Windcare India Private Limited, Udumalpet	1
24	Truetzschler India Private Limited, Coimbatore	1
25	Precot Limited, C Unit, Palakkad	1
26	New Tech Pvt Limited	1
27	ISRO Propulsion Complex, Mahendragiri	1
28	ISOLogic Automation, Tiruppur	1
29	Geltra technologies LLP, Kondotty malppuram	1
30	Chakradhar Aerospace and Cargo Private Limited, Coimbatore	1
31	3SI ECO POWER LLP, Andhra Pradesh	1
32	Live in Lab	6
Batch: 2023 – 2027		
1	National Institute of Technology, Trichy	9
2	Madras Institute of Technology, Chennai	1
3	Craftsman Automation Limited, Coimbatore	6
4	Roots Industries India Private Limited, Coimbatore	12
5	Salzer Electronics Limited, Coimbatore	6
6	Future EV Private Limited, Coimbatore	6
7	Emote Electric, Othakalmandapam, Coimbatore	1
8	Padmavahini Transformers Pvt. Ltd., Coimbatore	4
9	Madurai Meenakshi Electricals, Madurai	2
10	SEPC Power Private Limited, Tuticorin	4
11	Renishaw Metrology Systems Ltd, Bengaluru	2
12	Sakthi Sugar Limited, Erode	3
13	Tectzo Solutions Private Limited, Coimbatore	4

ITEM No.8:

- It is resolved that Regulation 2025 (Outcome based Curriculum through Choice based Credit System,) will be followed for all B.E. / B.Tech / M.Tech (Integrated) programmes for students admitted in the Academic year 2025 and onwards.

ITEM No.9:

- It is resolved that the Curriculum of III to VIII semesters and Syllabi of III and IV semester courses be approved.

Semester - III					
Category	Courses	L	T	P	C
Theory Courses					
BSC	Transforms and Computational Methods	2	0	0	2
PCC	Electromagnetic Field Theory	2	0	0	2
PCC	DC Machines and Transformers	2	1	0	3
AEC	Soft Skills for Professional Development / Foreign Language	2	0	0	2
SEC	E-CAD / PCB Design	2	0	0	2
VAC	Course 1	2	0	0	2
LAC	LAC Course	2	0	0	2
Theory Cum Laboratory Courses					
ESC	Data Structures and Algorithm	2	0	2	3
PCC	Digital Logic Circuits	2	0	2	3
Laboratory Courses					
PCC	DC Machines and Transformers Laboratory	0	0	2	1
		18	1	6	22
Semester IV					
Theory Courses					
BSC	Data Analysis and Probability Models	2	0	0	2
PCC	Linear Integrated Circuits and Applications	3	0	0	3
PCC	Induction and Synchronous Machines	2	1	0	3
PEC	Professional Elective I	3	0	0	3
OEC	Open Elective I	3	0	0	3
MDC	UI/UX	3	0	0	3
AEC	Aptitude for Employability	2	0	0	2
Laboratory Courses					
PCC	Linear Integrated Circuits Laboratory	0	0	2	1
PCC	Induction and Synchronous Machines Laboratory	0	0	2	1
ELC	Mini Project	0	0	4	2

ELC	Internship / Field Project				
		18	1	8	23
Semester V					
Theory Courses					
PCC	Generation, Transmission and Distribution of Electrical Energy	3	0	0	3
PCC	Control Engineering	2	1	0	3
PEC	Professional Elective II	3	0	0	3
OEC	Open Elective II	3	0	0	3
MDC	JAVA Programming	3	0	0	3
SEC	Course 2 – AUTOSAR / ANSYS	2	0	0	2
Theory cum Laboratory Courses					
PCC	Microcontroller and Embedded Systems	2	0	2	3
Laboratory Courses					
PCC	Control Engineering Laboratory	0	0	2	1
ELC	Multi-disciplinary Project	0	0	4	2
ELC	Internship / Field Project				
		18	1	8	23
Semester VI					
Theory Courses					
HSSM	Quality Systems and Management	3	0	0	3
PCC	Electrical Machine Design	3	0	0	3
PCC	Power Electronics	2	1	0	3
PCC	Power System Analysis	2	1	0	3
PEC	Professional Elective III	3	0	0	3
VAC	VAC Course 2	2	0	0	2
Theory cum Laboratory Courses					
PCC	System Engineering for Automotives	2	0	2	3
Laboratory Courses					
PCC	Power Electronics Laboratory	0	0	2	1
PCC	Power System Simulation Laboratory	0	0	2	1
ELC	Internship / Field Project				

		17	2	6	22
Semester VII					
Theory Courses					
HSSM	Entrepreneurship Skills and Management	3	0	0	3
PCC	Electric Drives and Control	3	0	0	3
PCC	Power System Protection and Switchgear	3	0	0	3
MDC	Cloud Computing / Computer Networks	3	0	0	3
PEC	Professional Elective IV	3	0	0	3
PEC	Professional Elective V	3	0	0	3
Laboratory Courses					
PCC	Electric Drives and Control Laboratory	0	0	2	1
ELC	Project Work	0	0	4	0
ELC	Internship / Field Project	0	0	4	2
		18	0	10	21
Semester VIII					
PEC	Professional Elective VI	3	0	0	3
ELC	Project Work	0	0	12	6
		3	0	12	9

ITEM No.10:

- It is resolved that the syllabi for the following new Professional Elective courses under Regulations 2025 be approved and passed.

Verticals	Vertical Name	Courses
Vertical - I	Electric Vehicles	Electric Vehicles Architecture
Vertical - II	Power Electronic Converters and Drives	Solid State Power Semiconductor Devices
Vertical - III	Power System Engineering	Renewable Energy Systems
Vertical - IV	Diversified Courses	Sustainability Energy Management
Vertical - V (Offered by Visteon)	Embedded Systems Software Development	System Programming using C
		Embedded Hardware Familiarization
		Embedded Drivers
		Software Development Lifecycle
		Automotive Embedded System

Vertical – VI (Offered by GUVI HCL)	VLSI	Advanced Digital System Design
		RISC-V Hardware Design
		ASIC System Design
		Low Power VLSI Design
		Testability and Automation in System Design
		Computational VLSI Design
Vertical – VII (Offered by GUVI HCL)	Gen AI	AI Principles and Techniques
		Foundations of Machine Learning and Deep Learning for Generative AI
		Natural Language Processing (NLP) for Generative AI
		Generative AI for Vision: Foundations in Computer Vision
		Advanced Techniques and Applications of Generative AI

ITEM No.11:

- It is resolved that the syllabi for the following new Open Elective courses under Regulations 2025 be approved and passed.

Offered by	Courses	L	T	P	C	Offered to
EEE	Electric and Hybrid Electric Vehicle	3	0	0	3	All Dept (Except EEE)
	Sustainable Power Generation Systems	3	0	0	3	

ITEM No.12:

- It is resolved that the syllabi for the following new Multidisciplinary Courses (MDC) under Regulations 2025 be approved and passed.

Category	Sem	Courses	L	T	P	C	Offered to
MDC	III	Electric Vehicle Technology	3	0	0	3	B.Tech - IT

ITEM No.13:

- It is resolved that the syllabi for the following new Skill Enhancement courses (SEC) under Regulations 2025 be approved and passed.

Category	Sem	Courses	L	T	P	C	Offered By
SEC	III	E-CAD / PCB Design	2	0	0	2	EEE
SEC	V	AUTOSAR / ANSYS	2	0	0	2	EEE

ITEM No.14:

- It is resolved that the following Mandatory courses be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

Year	Courses
I	Induction Programme – 1 Week
II	Universal Human Values (UHV) - 30 hours
III	Co-curricular Courses (any one) • English Proficiency Certificate • Professional Society Activities • Aptitude / Soft Skills / Design Thinking • Foreign / Vernacular Language • Globally Accepted Technical Certification • Club Activities
	Extra-curricular Courses (any one) • Sports & Games • Youth Red Cross • NCC • NSS

Suggestions from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. P. Subha Karuvelam, University Nominee:

A. Course: DC Machines and Transformers

- Recommended to include more **case studies** to strengthen practical **understanding** and **contextual learning**.

B. Course: DC Machines and Transformers Laboratory

- The title of the experiment "**Three Phase Transformer Connections**" to be modified for better **clarity**.

C. Course: Linear Integrated Circuits and Applications

- Inclusion of a **case study** on **DC motor control** using **op-amp** is recommended.
- Recommended to add **real time case studies** relevant to the **campus environment**.

D. Course: Linear Integrated Circuits Laboratory

- Recommended to introduce a **closed-loop control experiment** to reinforce fundamental **control applications**.

E. Course: Induction and Synchronous Machines

- The topic "**PMSM – Types**" under Module II requires **expansion** to ensure **comprehensive coverage**.
- It is advised to include the **case study topics** relevant to **industrial applications**.

F. Course: Induction and Synchronous Machines Laboratory

- Suggested to include **PLC (Programmable Logic Controller) programming** as an elective course or skill enhancement course.
- Include experiment "**Mathematical modelling of electrical machine using ICT tools**".

G. Course: Renewable Energy Systems

- Suggested to **review and redefine** of the **case study topics** to improve their **relevance** and **practical applicability**.

H. Course: Data Analysis and Probability Models

- Inclusion of **case studies** suitable for **electrical engineering applications** is recommended.
- It is advised to incorporate the use of **R software** and **MATLAB tools** for data analysis.

Feedback from Mr. Premsunder Ravi, Industry Expert

A. Course: Linear Integrated Circuits and Applications

- Suggested to include the topic **low-dropout regulator ICs**.

B. Course: Solid State Power Semiconductor Devices

- In Module I, it is recommended to add **application examples** in place of the topic **ideal vs. real-world device behavior**.

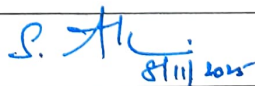
C. Course: Electric Vehicle Architecture

- It is suggested to include a new topic on **In-Vehicle Networking (IVN)**.

D. Course: Electric and Hybrid Electric Vehicles

- Recommended to address **Electromagnetic Interference (EMI)**, **Electromagnetic Compatibility (EMC)** and **environmental resilience**.

The Chairperson extended heartfelt thanks to all the Board members and faculty members for their valuable contributions and participation in the curriculum enrichment, and then formally concluded the meeting.

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	

2.	Dr. P. Subha Karuvelam	University Nominee	<i>S. P. Subha Karuvelam</i> 8/11/25
3.	Mr. Prem Sunder Ravi	Industrial Expert	<i>Prem Sunder Ravi</i> 8/11/25
4.	Dr. K. Elanseralathan	Academic Expert	Attended virtually through h-Meet
5.	Dr. S. Kumaravel	Subject Expert	Attended virtually through h-Meet
6.	Mr. K. Jagadeesh	Alumni Member	Absent
7.	Dr. A. Soundarrajan	Member	<i>A. Soundarrajan</i>
8.	Dr. R. Shanmugasundaram	Member	<i>R. Shanmugasundaram</i> 8/11/2025
9.	Dr. A. Sakthivel	Member	<i>A. Sakthivel</i>
10.	Dr. K. Uthayarani	Member	<i>K. Uthayarani</i> 8/11/25
11.	Dr. K. Sebasthi Rani	Member	<i>K. Sebasthi Rani</i> 8/11/2025
12.	Dr. K. Balamurugan	Member	<i>K. Balamurugan</i> 8/11/25
13.	Mr. V. Gopu	Member	<i>V. Gopu</i> 8/11/2025
14.	Dr. P. Sebastian Vindro Jude	Member	<i>P. Sebastian Vindro Jude</i> 8/11/25
15.	Dr. M. Chindamani	Member	<i>M. Chindamani</i> 8/11/25
16.	Mr. R. Mohan Kumar	Member	<i>R. Mohan Kumar</i> 8/11/25
17.	Dr. R. Krishnakumar	Member	<i>R. Krishnakumar</i> 8/11/25
18.	Mrs. R. K. Ragavapriya	Member	<i>R. K. Ragavapriya</i> 08/11/2025
19.	Dr. M. Ezhilarasi	Member	<i>M. Ezhilarasi</i> 8/11/25
20.	Dr. C. Praveenkumar	Member	<i>C. Praveenkumar</i> 8/11/25
21.	Dr. N. Indumathi	Member	<i>N. Indumathi</i> 8/11/25
22.	Mrs. E. Shanthini	Member	<i>E. Shanthini</i> 8/11/25

S. Allirani 8/11/2025

Dr. S. Allirani

CHAIRPERSON - BOARD OF STUDIES

Department of Electrical and Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 21st BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 28.03.2025 AT 02.30 PM CENTRE OF EXCELLENCE – E MOBILITY LABORATORY.

The following members attended the meeting.

1. **Dr. S. Allirani**, Professor & Head – Chairperson, BoS – EEE
2. **Dr. P. Subha Karuvelam**, (University Nominee), Professor, Department of EEE, Government College of Engineering, Tirunelveli.
3. **Mr. Premsunder Ravi**, (Industrial Expert), Senior Project Manager, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. S. Kumaravel**, (Subject Expert from other University), Associate Professor, Department of Electrical Engineering, National Institute of Technology, Calicut, Kerala.
5. **Mr. K. Jagadeesh**, (Alumni Member), Deputy General Manager, M/s. Schneider Electric India Pvt. Ltd, Coimbatore.
6. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
7. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
8. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
9. **Mr. V. Gopu**, Assistant Professor (Sl.G) / EEE, SREC
10. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
11. **Dr. M. Chindamani**, Assistant Professor (Sl.G) / EEE, SREC
12. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
13. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
14. **Mrs. R. K. Ragavapriya**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. M. Ezhilarasi**, Assistant Professor (Sl.G) / EEE, SREC
16. **Mr. C. Praveenkumar**, Assistant Professor (Sl.G) / EEE, SREC
17. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
18. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Members in absentia

1. **Dr. K. Sebasthi Rani**, Associate Professor / EEE, SREC (in medical leave)
2. **Dr. K. Elanseralathan**, (Academic Expert), Professor & Head, Electrical and Electronics Engineering, Puducherry Technological University, Puducherry.

Professor Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 21st BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1:

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.

ITEM No.2:

- It is resolved that the following NPTEL courses are approved for credit transfer during April/May 2025.

(A) For Credit Transfer under Professional Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OPE46	Analog IC Design	3	12
2.	OPE47	Digital IC Design	3	12
3.	OPE48	EV- Vehicle Dynamics and Electric Motor Drives	3	12

(B) For Credit Transfer under Open Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OOE49	Privacy and Security in Online Social Media	3	12
2.	OOE50	Blockchain and its Applications	3	12

ITEM No.3:

- It is resolved that the Result Analysis for the Academic Year 2024 – 2025 (Semesters VII / V/ III) are approved and passed.

Programme: UG – EEE**Batch: 2021-2025****Semester: VII**

No of Students Appeared in all the subjects : 96

No of Students passed in all the subjects : 87

Overall Pass Percentage : 90.63%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE2E01-Electrical Energy Generation Utilization and Conservation	52	50	2	96.15
2	20EE2E04 - Power Quality	94	88	6	93.62
3	20EE2E05 – Smart Energy Delivery Systems	59	58	1	98.31
4	20EE2E22- Electric Machine Drives for EV	56	54	2	96.43
5	NOC24-GE 15- Entrepreneurship Essentials	1	1	0	100

Programme: UG – EEE**Batch: 2022-2026****Semester: V**

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 85

Overall Pass Percentage : 86.73%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE206 - Induction and Synchronous Machines	97	92	5	94.85
2	20EE207 - Power Electronics	97	92	5	94.85

3	20EE208 - Transmission and Distribution of Electrical Energy	97	91	6	93.81
4	20EE210 - Total Quality Management	97	94	3	96.91
5	20EE2E24 - Smart Automation System	66	66	0	100
6	20EI209 - Microcontrollers and Embedded Systems	97	97	0	100
7	20CS242 - Artificial Intelligence	97	96	1	98.97
8	20EE2E05 - Smart Energy Delivery Systems	44	44	0	100
9	20EE2E07 - Electrical and Industrial Safety Engineering	31	29	2	93.55
10	20EE272 - Induction and Synchronous Machines Laboratory	97	97	0	100
11	20EI275 - Microcontrollers and Embedded System Laboratory	97	97	0	100
12	20CS2E66 - Foundations of AR/VR	16	16	0	100
13	20EI2E12 - Programmable Logic Controller	10	8	2	80
14	20CE2E53 - Geographical Information System	13	12	1	92.31
15	20IT203 - Web Design	12	12	0	100
16	20EC2E55 - Applications of IoT in Robotics	4	4	0	100
17	20BM206 - Biology for Engineers	2	2	0	100
18	NOC23 - EE66 - Sensors and Actuators	2	2	0	100
19	20RA2E57 - Wheeled Mobile Robots	8	8	0	100
20	20MA209 - Vedic Mathematics	1	1	0	100
21	20AE2E54 - Automotive Aerodynamics	6	6	0	100
22	20ME2E52 - Engineering Economics	7	7	0	100
23	20EN2E03 - Generic Skills for Employability	3	3	0	100
24	20AD2E53 - Software Development Essentials	2	2	0	100
25	20EN2E04 - Gender Perspective in Team Building and Leadership	6	6	0	100
26	20EC2E53 - Image Processing and Applications	4	4	0	100
27	NOC24-CS35 - Introduction to Internet of Things	9	9	0	100
28	20CS292 - Data Structures and Algorithm Analysis Laboratory	1	1	0	100

Programme: UG – EEE

Batch: 2023-2027

Semester: III

No of Students Appeared in all the subjects : 103

No of Students passed in all the subjects : 68

Overall Pass Percentage : 66.02%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA211 - Transforms and Partial Differential Equations	104	90	14	86.54
2	20EI206 - Analog Integrated Circuits	104	102	2	98.08
3	20EE202 - Network Analysis and Synthesis	104	94	10	90.38

4	20EE203 - Electromagnetics	104	91	13	87.5
5	20EC204 - Digital System Design	103	85	18	82.52
6	20EE217 - Electric Vehicle Technology	104	98	6	94.23
7	20EC271 - Digital System Design Laboratory	104	104	0	100
8	20EI273 - Analog Integrated Circuits Laboratory	104	104	0	100
9	20BM206 - Biology for Engineers	93	93	0	100
10	20IT2I01 - Design Thinking	94	94	0	100
11	20RA2E56 - Exploring Controller for Robotics	8	8	0	100
12	20AD2E52 - Foundations for Web Programming	17	15	2	88.24
13	20EC2E57 - Joy of Electronics	18	18	0	100
14	20EI2E14 - Testing Calibration of Equipments	9	9	0	100
15	20IT2E51 - Android Application Development	14	13	1	92.86
16	20EC2E51- Consumer Electronics	8	8	0	100
17	20CS2E61 - Python for Data Science	6	6	0	100
18	20CE2E54 - Disaster Management	3	3	0	100
19	20ME2E54 - Project Management	16	16	0	100
20	20AE2E55 - Space: The Final Frontier	1	1	0	100
21	20EN2E01 - Life Skill and Personality Development	2	2	0	100
22	20EN2E02 - Art of Speaking	1	1	0	100
23	20BM2E31 - Healthcare Technology	1	1	0	100

ITEM No.4:

- It is resolved that the following specialization courses are offered during the even semester of Academic Year 2024 – 2025 and the following eligible students be approved for the Honors Specialization in B.E. Electrical and Electronics Engineering programme.

Specialization Course Details	Course Code and Title	Register No. of the Candidate	Name
Electric Vehicles Specialization	20EE2E27 - Automotive Transmission Systems	71812203011	Deepakkumar R
		71812203013	Dhanya R
		71812203014	Dharanidharan G
		71812203015	Divya Rakshana M R
		71812203025	Hariharan V S
		71812203028	Hitesh Balaji N
	20EE2E28 - Battery Pack Design and Thermal Management	71812203032	Joselyn P
		71812203041	Lohith S
		71812203104	Moneesha S S
		71812203107	Nithes Kumar J
		71812203113	Pavithra S
		71812203141	Vishwakanth K N
		71812203145	Sanjay B

ITEM No.5:

- It is resolved that the following Mandatory courses be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

(a) Personality and Character Development

Course Code	No. of Students Completed
Batch: 2021 - 2025	
20MC031 - Association of Electrical and Electronics Engineering (EEETA)	11
20MC032 - Indian Association of Energy Management Professionals (IAEMP)	02
20MC201 - Sports and Games	12
20MC204 - National Service Scheme (Unit-I)	07
20MC205 - Youth Red Cross	01
20MC208 - Soft Skills (Leadership and Workplace Etiquette)	09
20MC210 - Science Association	01
20MC212 - Tamil Mandram	01
20MC213 - Renewable Energy Club	31
20MC214 - Philatelic Club	04
20MC215 - Phorartz club	02
20MC222 - Yi YUVA-SREC	17
Batch: 2022 - 2026	
20MC031 - Association of Electrical and Electronics Engineering (EEETA)	16
20MC201 - Sports and Games	07
20MC208 - Soft Skills (Leadership and Workplace Etiquette)	55
20MC210 - Science Association	16
20MC214 - Philatelic Club	04
Batch: 2023 - 2027	
20MC222 - YI YUVA	09
20MC220 - Robo Club	03
20MC218 - Reading Club	02
20MC217 - Fine Arts club	05
20MC216 - Quiz Club	02
20MC215 - Phorartz Club	01
20MC213 - Renewable Energy Club	07
20MC212 - Tamil Mandram	09
20MC210 - Science Association	02
20MC209 - English Literary Society	05
20MC208 - Soft skills	01
20MC205 - Youth Red Cross	04
20MC204 - National Service Scheme	18
20MC202 - Empowerment through Yoga- Yoga & Meditation Club	04
20MC201 - Sports and Games	06

(b) Technical Certification Courses: 20MC275- Technical Certification Course

Name of the certification course (Plat form with name)	No. of Students Completed
Batch: 2021 - 2025	
Coursera - MBSE: Model Based Systems Engineering	17
Coursera - Introduction to the Internet of Things and Embedded Systems	01

Coursera - Create Your First Python Program From UST	60
Coursera - Configuring your IDE for absolute beginners with AWS Cloud9	01
Coursera - Electric Vehicles and mobility	01
Coursera - Using Basic Formulas and Functions in Microsoft Excel	02
Coursera - Python 101: Develop Your First Python Program	01
Coursera - Technical Support Fundamentals	01
Coursera - Introduction to Embedded Machine learning	01
Coursera - HTML, CSS and JavaScript for Web developers	01
Coursera - C for Everyone: Programming Fundamentals	01
Coursera - CFD Simulation through a centrifugal pump	02
NPTEL - Smart Grid: Basics to advanced technologies	02
NPTEL - Sensors and Actuators	07
Batch: 2022 - 2026	
NPTEL - DC Microgrid and Control System	01
EF Certificate - English certificate	01
Stepik - Engineering of the Future	01
IIT Bombay - ESIM	01
Stepik - Introduction to Computer Science & OOP: Python	01
NPTEL - Introduction to Industry 4.0 and Industrial Internet of Things	01
IIT Bombay - Introduction to Internet of Things	01
Study Section - Microsoft Excel (foundation)	01
IIT Bombay - SCILAB	01
NPTEL - Sensors and Actuators	01
NPTEL - Sustainable Power Generation System	01
Batch: 2023 - 2027	
NPTEL - Introduction to Internet of Things	18
NPTEL - Sustainable Power Generation Systems	01
NPTEL - Innovation by Design	01
Coursera - Electric Vehicles and Mobility	02
IGNOU - Introduction to Electric and Hybrid Electric Vehicle	03
IIT Bombay/Spoken Tutorial - eSim Training	11
IIT Bombay/Spoken Tutorial - Java Training	04
IIT Bombay/Spoken Tutorial - C++ Training	06
IIT Bombay/Spoken Tutorial - Python 3.4.3 Training	05

ITEM No.6:

- It is resolved that the following students had completed 4/6 weeks of Internship/Inplant training be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

S. No	Company Details	No. of Students Completed
Batch: 2021 - 2025		
1	Indian Institute of Information Technology Design and Manufacturing, Kancheepuram	3
2	National Institute of Tiruchirappalli	6
3	NLC India limited-Mines 2 , Neyveli	12

4	Roots Industries India Private Limited, Coimbatore	4
5	Pricol Engineering Industries Private Limited, Coimbatore	8
6	Salzer Electronics Ltd, Coimbatore	23
7	Intelle Power and Automation Pvt Ltd, Coimbatore	1
8	Electromotive Power Drives Pvt Ltd, Coimbatore	2
9	TANGEDCO, Coimbatore	1
10	Mettur Thermal Power Station -II, TANGEDCO, Mettur Dam	1
11	346 Samy & Co Sizing and Weaving Mill, Dhalavapuram, Virudhunagar	1
12	Akash Powertech Industries, Ondipudhur, Coimbatore	5
13	Aim Electricals Control India Pvt Ltd, Coimbatore	2
14	Pressmatic Engineers India Pvt Limited, Coimbatore	1
15	UI Bridge Solutions Pvt. Ltd, Coimbatore	5
16	Massiv Foundations, Ganapathy, Coimbatore	12
17	New Tech Solutions, Ganapathy, Coimbatore	20
18	Prakash Vidyut Limited, Aralolmozhy, Kanyakumari	1
19	MN Auto Products Private Limited, Coimbatore	4
20	Suyash Solution Pvt Ltd, Coimbatore	2
21	Michael Electronics, Coimbatore	5
22	Sri Hari Electricals, Chinnavedampatty, Coimbatore	4
23	Deccan Industries, Ganapathy, Coimbatore	9
24	Navinchandra & Co, SS Kulam, Coimbatore	17
25	Steelcare Engineers, Coimbatore	6
26	Sarayu Engineering, Dindigul	1
27	MK Engineering, Coimbatore	6
28	Shree Technologies, Papanayakanpalayam, Coimbatore	8
29	CRI Pumps Private Limited, Saravanampatti, Coimbatore	1
30	Ampereplus Engineering & services, Bengaluru	1
31	Ultimatech Elevators Private Limited, Bangalore	1
32	Smartedgeteq Pvt Ltd, Chennai	1
33	Pioneer Boards Private Limited, Coimbatore	2
34	Headway Fine Tech, K.Vadamadurai, Coimbatore	1
35	Prospect AI Limited, Madukarai, Coimbatore	1

Batch: 2022 - 2026

1	ISRO Space Centre, Mahendragiri	2
2	Neyveli Lignite Corporation Ltd., Neyveli	4
3	Roots Industries, Coimbatore	1
4	Salzer Electronics Ltd., Coimbatore	13
5	Southern Railways, Erode Junction	3
6	PRICOL Ltd., Coimbatore	3
7	Steel Authority of India Ltd. (SAIL), Salem	9
8	Unnadh Bharat Abhiyan Scheme	6
9	Versa Drives, Coimbatore	4
10	Pentagon Switchgear P Ltd., Coimbatore	4
11	Best Engineers Pump P Ltd., Coimbatore	1

12	Chakradhara Aerospace and Cargo (P) Limited, Coimbatore	1
13	Gayathri Calibration Services, Coimbatore	1
14	GECTRA, Palakkad	1
15	ISOLOGIC Automation, Vellakovil	1
16	JSI EcoPower P Ltd., Tada, Andhra Pradesh	1
17	Lakshmi Machine Works, Coimbatore	1
18	RPM Automation Ltd., Coimbatore	1
19	RS Windtech Engineers, Kudimangalam	1
20	Sakthi Control Ltd., Coimbatore	2
21	Sakthi Sugars Ltd., Appakoodal	1
22	Tamilnadu Newsprint & Paper Ltd., Karur	2
23	Texmo Industries, Coimbatore	5
24	Truetzshler India P Ltd., Coimbatore	1
25	Windcare P Ltd., Kudimangalam	1
Batch: 2023 - 2027		
1	Salzer Electronics Ltd. Unit II, Chinamadampalayam, Coimbatore	2
2	Roots Industries India Private Ltd, Coimbatore	9
3	Madurai Meenatchi Electricals, Kappalur, Madurai	2
4	Padmavahini Transformers Pvt. Ltd., Coimbatore	3
5	SEPC Power Private Ltd., Tuticorin	4

ITEM No.7:

- It is resolved that the Proposed Regulations 2025 (Outcome based Curriculum through Choice based Credit System) be approved and passed.

Semester - I

Category	Courses	L	T	P	C
Theory Courses					
BSC	Algebra, Differential Calculus and Transforms	3	1	0	4
BSC	Applied Material Science	2	0	0	2
ESC	Electric Circuits	3	1	0	4
ESC	Compendium of Electrical Engineering	2	0	0	2
HSSM	Heritage of Tamils	1	0	0	1
Theory Cum Laboratory Courses					
HSSM	Business and Corporate Communication	2	0	2	3
ESC	Programming Foundations	2	0	2	3
Laboratory Courses					
ESC	Computer Aided Engineering Graphics Laboratory	0	0	2	1
		15	2	6	20

Semester - II

Category	Courses	L	T	P	C
Theory Courses					
HSSM	Indian Knowledge System	3	0	0	3
BSC	Integral Calculus and Partial Differential Equations	3	1	0	4
BSC	Electrochemical Science	2	0	0	2
ESC	Electron Devices	2	0	0	2

PCC	Sensors and Applications	2	0	0	2
HSSM	Tamils and Technology	1	0	0	1
AEC	Functional English	2	0	0	2
Theory Cum Laboratory Courses					
ESC	Programming in Python	2	0	2	3
Laboratory Courses					
BSC	Basic Science Laboratory	0	0	2	1
ESC	Electric Circuits and Electron Devices Laboratory	0	0	2	1
		17	1	6	21

ITEM No.8:

- It is resolved that Regulations 2025 (Outcome based Curriculum through Choice based Credit System,) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2025 and onwards.

Suggestions from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. P. Subha Karuvelam, University Nominee:

- Suggested to send the students for internship under **National Skill Development Corporation (NSDC)**.
- In regulation 2025 under Assessment tools, **Term Work and Self Learning can be combined** as a single assessment tool **comprising of 10 Marks** which could be implemented for **selective course in each semester**.
- In regulation 2025, she recommended to **conduct Semester End Examination for the laboratory component in Theory cum Laboratory courses**.
- She appreciated the uniform credit distribution for all the semesters under the regulation 2025.

Suggestions given by Dr. S. Kumaravel, Subject Expert:

- Suggested to combine Basic Science Courses (BSC) and Humanities, Social Science and Management courses (HSSM) as Institute core courses.
- Suggested to reduce the Basic Science Courses (BSC) and increase the Core Courses in the first semester.
- Suggested to have maximum of team size as **"Four"** in the final year project.
- Board members had appreciated the **"Mini Project II"** given as **multidisciplinary project** during the third year under the regulation 2025.
- In regulation 2025 under Assessment tools, **Term Work and Self Learning** can be combined as a **single assessment tool comprising of 10 Marks** which could be implemented for selective courses in each semester.
- Board members had appreciated the **course withdrawal concept** under the regulation 2025.
- The grading system can be modified as follows:
 - ✓ **Minimum pass percentage : 40% instead of 45%**
 - ✓ **First class : 60 % instead of 65 %**
 - ✓ **First Class with Distinction: 80 % and above**

The same may be submitted to the Anna University for further process.

Suggestions given by Mr. K. Jagadeesh, Alumni Member:

- Suggested to allow the students to take up the **industry internship with minimum period of one year**.

Suggestion to the course content:

Course – Algebra, Differential Calculus and Transforms.

- Board members suggested to **use IT tools instead of MATLAB** in case studies.
- **Dr.Subha Karuvelam** suggested to **modify and segregate the case studies** in program wise.
- Suggested to have **two or three case studies** for each course
- Suggested to move the module **Laplace Transforms as second or third module** instead of last module.

Course – Integral Calculus and Partial Differential Equations

- Board members suggested to **use IT tools instead of MATLAB** in case studies.
- Board members suggested to **modify and segregate the case studies** relevant to the particular program.

Course – Basic Science Laboratory (Physics)

- Suggested to have **five to Six experiments** for the laboratory component.

Course – Electric Circuits

- Dr.Kumaravel recommended to have **4 Credits** for the course.
- He suggested to split the **first module into two paragraphs** and increase the number of hours allocated.
- He suggested to reframe the syllabus since the syllabus content is too heavy.
- He suggested to move the topic **“Transient Analysis of RL, RC and RLC”** under the module DC Circuit Analysis.
- He suggested to mention the specific topics under the concept of three phase circuits as **“Three phase 3 wire and three phase 4 wire systems – Star and Delta connections - three phase power in balanced circuit”**.
- He suggested to remove the word simple in **“Analysis of simple series and parallel circuits”**.

Course – Electron Devices

- Board members recommended to include **“applications”** in all the modules.

Course – Compendium of Electrical Engineering

- Dr.Kumaravel recommended to have **2 credits** for the course and offer it as theory course instead of theory cum laboratory.
- Mr.Jagadeesh suggested to include the following topics in the module of **“Electrical Measuring Instruments”**
 - **Standards**
 - **Current transformer and Potential transformer**

Course – Sensors and Applications

- Mr.Prem Sundar Ravi recommended to include the topic **RADAR** in the module – **Sensor Classification: A comprehensive Overview**.
- **Dr.Subha Karuvelam** recommended to remove **RASPBERRY Pi processor** as it was higher level content.
- In addition to that, Mr.Prem Sundar Ravi suggested to change the controller as **AGNI Processor and SHAKTI Processor** instead of **RASPBERRY Pi**.

- He suggested to utilise open source tools such as **FALSTAD Circuit Simulator** and **Tinker CAD** for conducting the laboratory simulations.
- Board members appreciated the course content.

Course - Electrical Technology

- Dr.Subha Karuvelam suggested to specify the topic as **Construction and Principle of operation** for different types of Special Electrical Machines. Also suggested to include the **applications** for special electrical machines.

Course - Fundamentals of Electrical and Electronics Engineering.

- Dr.Kumaravel suggested to **remove Star - Delta Transformations** in the module Basic Electrical Circuits.
- He also recommended to change the title of the Module as **"Electrical Machines"** instead of "Electrical Machines and Power Systems" and **remove** the following topics
 - **"Power Transmission & Distribution basics"**
 - **"Introduction to Renewable Energy Systems"**
- Dr. Subha Karuvelam recommended to **remove** the topics **Raspberry Pi for mechanical applications and basics of PLC**, since it is higher level content in the module "Microcontroller and Embedded Systems".
- Dr. Subha Karuvelam recommended to **remove the topic Operational Amplifier** in the module "Fundamentals of Electronics".
- She recommended to **remove the topic Introduction to Renewable Energy and Smart Grid** in the module "Electrical Safety Wiring and Energy Management".

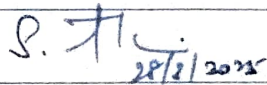
Course - Fundamentals of Electrical and Engineering Laboratory

- Dr. Kumaravel suggested to have the experiment name as **Load test on Three Phase Squirrel Cage Induction Motor** instead of load test on induction motor.
- Dr. Subha Karuvelam suggested to **remove Raspberry Pi from the experiment**.
- Board members suggested to **include any one electric drive based experiment** in the syllabus.
- They also recommended to **remove the experiment "Verification of Ohm's Law and Kirchhoff's Law"** as the students learnt in their school education itself.

Course - Electrical Systems for Building

- Mr.Jagadeesh recommended to include the topic **Residual Current Device (RCD)** instead of Ground Fault Circuit Interrupters (GFCI).

The Chairperson extended heartfelt thanks to all the Board members and faculty members for their valuable contributions and participation in the curriculum enrichment, and then formally concluded the meeting.

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	 28/2/2025

2.	Dr. P. Subha Karuvelam	University Nominee	<i>Subha Karuvelam</i> 28/3/25
3.	Mr. Premsunder Ravi	Industrial Expert	<i>Premsunder Ravi</i> 28/3/25
4.	Dr. K. Elanseralathan	Academic Expert	In absentia
5.	Dr. S. Kumaravel	Subject Expert	<i>S. Kumaravel</i>
6.	Mr. K. Jagadeesh	Alumni Member	<i>K. Jagadeesh</i>
7.	Dr. K. Uthayarani	Member	<i>K. Uthayarani</i> 28/3/25
8.	Dr. R. Shanmugasundram	Member	<i>R. Shanmugasundram</i> 28/3/2025
9.	Dr. K. Sebasthi Rani	Member	Medical Leave
10.	Dr. K. Balamurugan	Member	<i>K. Balamurugan</i> 28/3/25
11.	Mr. V. Gopu	Member	<i>V. Gopu</i> 28/3/2025
12.	Dr. P. Sebastian Vindro Jude	Member	<i>P. Sebastian Vindro Jude</i> 28/3/25
13.	Dr. M. Chindamani	Member	<i>M. Chindamani</i> 28/3/25
14.	Mr. R. Mohan Kumar	Member	<i>R. Mohan Kumar</i> 28/3/25
15.	Dr. R. Krishnakumar	Member	<i>R. Krishnakumar</i> 28/3/25
16.	Mrs. R. K. Ragavapriya	Member	<i>R. K. Ragavapriya</i> 28/3/2025
17.	Dr. M. Ezhilarasi	Member	<i>M. Ezhilarasi</i> 28/3/2025
18.	Mr. C. Praveenkumar	Member	<i>C. Praveenkumar</i> 28/3/25
19.	Dr. R. Kasthuri	Member	<i>R. Kasthuri</i> 28/3/25
20.	Mrs. E. Shanthini	Member	<i>E. Shanthini</i> 28/3/25

S. J. L.
 28/3/2025
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 21st Board of Studies (UG)

28.03.2025

S. No.	Name of the Faculty	Signature
1	Dr. S. Allirani, Professor and Head	S. Allirani 28/3/2025
2	Dr. A. Soundarrajan, Professor and Principal	A. Soundarrajan 28/3
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram 28/3/2025
4	Dr. K. Sebasthirani, Associate Professor	Medical Leave
5	Dr. K. Balamurugan, Associate Professor	K. Balamurugan 28/3/2025
6	Mr. V. Gopu, Assistant Professor (Sl. Gr)	V. Gopu 28/3/2025
7	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	P. Sebastian Vindro Jude 28/3/2025
8	Dr. M. Chindamani, Assistant Professor (Sl. Gr)	M. Chindamani 28/3/2025
9	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	R. Mohan Kumar 28/3/2025
10	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	R. Krishnakumar 28/3/2025
11	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	R. K. Ragavapriya 28/3/2025
12	Dr. M. Ezhilarasi, Assistant Professor (Sl.Gr)	M. Ezhilarasi 28/3/2025
13	Mr. C. Praveenkumar, Assistant Professor (Sl. Gr)	C. Praveenkumar 28/3/2025
14	Mrs. N. Divya, Assistant Professor (Sl.Gr)	N. Divya 28/3/2025
15	Mr. B. Sridhar, Assistant Professor (Sl.Gr)	On duty
16	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.Gr)	R. R. Rubia Gandhi 28/3/2025
17	Dr. H. Vidhya, Assistant Professor (Sr.Gr)	H. Vidhya 28/3/2025
18	Mr. B. Marisekar, Assistant Professor (Sr.Gr)	B. Marisekar 28/3/2025
19	Mr. R. Santhoshkumar, Assistant Professor (Sr.Gr)	R. Santhoshkumar 28/3/2025

S. Allirani
28/3/2025

CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 20th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 15.11.2024 AT 02.30 PM THROUGH ONLINE MODE.

The following members attended the above meeting.

1. **Dr. S. Allirani**, Professor & Head – Chairperson, BoS – EEE
2. **Dr. P. Subha Karuvelam**, (University Nominee), Professor, Department of EEE, Government College of Engineering, Tirunelveli.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Senior Project Manager, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. K. Elanseralathan**, (Academic Expert), Professor & Head, Electrical and Electronics Engineering, Puducherry Technological University, Puducherry.
5. **Dr. S. Kumaravel**, (Subject Expert from other University), Associate Professor, Department of Electrical Engineering, National Institute of Technology, Calicut, Kerala.
6. **Mr. K. Jagadeesh**, (Alumni Member), Deputy General Manager, M/s. Schneider Electric India Pvt. Ltd, Coimbatore.
7. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
8. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
9. **Dr. K. Sebasthi Rani**, Associate Professor / EEE, SREC
10. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
11. **Mr. V. Gopu**, Assistant Professor (Sl.G) / EEE, SREC
12. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
13. **Dr. M. Chindamani**, Assistant Professor (Sl.G) / EEE, SREC
14. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Mrs. R. K. Ragavapriya**, Assistant Professor (Sl.G) / EEE, SREC
17. **Dr. M. Ezhilarasi**, Assistant Professor (Sl.G) / EEE, SREC
18. **Mr. C. Praveenkumar**, Assistant Professor (Sl.G) / EEE, SREC
19. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
20. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Prof Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 20th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1:

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2021 & onwards.

ITEM No.2:

- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Contact Hours / Week	L	T	P	C
1	20EE2E40	Hydrogen Energy	3	3	0	0	3
2	20EE2E41	Rural Electrification: Technologies and Economics	3	3	0	0	3

ITEM No.3:

- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2024.

(A) For Credit Transfer under Professional Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OPE43	Electronics Systems Design: Hands-on Circuits and PCB Design with CAD Software	3	12
2.	OPE44	Introduction to Electric and Hybrid Electric Vehicle	4	12
3.	OPE45	Sustainable Power Generation Systems	3	12

(B) For Credit Transfer under Open Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OOE46	Understanding Incubation and Entrepreneurship	3	12
2.	OOE47	Patent Drafting for Beginners	1	4
3.	OOE48	Introduction to Machine Introduction to Machine	3	12

ITEM No.4:

- It is resolved that the Result Analysis for the Academic Year 2023 – 204 (Semesters VIII / VI/ IV/II) are approved and passed.

Programme: UG – EEE**Batch: 2020-2024****Semester: VIII**

No of Students Appeared in all the subjects : 124

No of Students passed in all the subjects : 124

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE277- Project Work	124	124	0	100
2	20EE279- Internship	112	112	0	100

Programme: UG – EEE**Batch: 2021-2025****Semester: VI**

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 81

Overall Pass Percentage : 82.65%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE211 - Electric Drives and Control	98	83	15	84.69
2	20EE212 - Power System Analysis	98	96	2	97.96
3	20EE213 - Power System Protection and Switchgear	98	94	4	95.92
4	20EE214 - Renewable Energy	98	98	0	100
5	20EE215 - Smart Grid and Data Analytics	98	97	1	100
6	20EE216 - Project and Finance management	98	98	0	100
7	20EE273 - Power System Simulation Laboratory	98	98	0	100
8	20EE274 - Power Electronics and Drives Laboratory	98	98	0	100
9	20EE276 - Mini Project II	98	98	0	100
10	20EE2E23 - Grid Integrating Techniques and Challenges	34	32	2	94.12
11	20EE2E08 - Special Electrical Machines	64	61	3	95.31
12	20EE2E05 - Smart Energy Management Systems	37	37	0	100
13	NOC23 - EE108 -Enclosure design of Electronics Equipment	2	2	0	100

14	20CS203 - Sociology of Digital Media	1	1	0	100
15	20EEI005 - Industrial Automation PLC and SCADA	1	1	0	100

Programme: UG – EEE

Batch: 2022-2026

Semester: IV

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 60

Overall Pass Percentage : **61.22%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE204 – DC Machines and Transformers	98	92	6	93.88
2	20EE205 – Control Systems	98	96	2	97.96
3	20EI253 - Model Based System Design	98	90	8	91.84
4	20MA218 – Probability, Statistics and Numerical Methods	97	91	6	93.81
5	20CS201 – Disruptive Technologies	96	96	0	100
6	20CS243 – Data Structures and Algorithm Analysis	98	96	2	97.96
7	20EEI005 – Industrial Automation PLC and SCADA	98	98	0	100
8	20BM206 – Biology for Engineers	82	82	0	100
9	20EE271 – DC Machines and Transformers Laboratory	98	96	2	97.96
10	20EI278 – Control Systems Laboratory	98	98	0	100
11	20CS292 – Data Structures and Algorithm Analysis Laboratory	96	94	2	97.92
12	20EE275 – Mini Project – I	98	98	0	100
13	20BM2E31 – Healthcare Technology	16	16	0	100
14	20EE235 – Positive Psychology	72	72	0	100
15	20AE2E56 – Electric Aviation	12	11	1	91.67
16	20EE2E02 – Wind and Solar Energy Systems	45	45	0	100
17	NOC23-CS83 – Introduction to Internet of Things	9	9	0	100
18	20AD2E51 – Python Frameworks for Machine Learning	2	2	0	100
19	20ME2E54 – Project Management	17	15	2	88.24
20	20AD2E16 – Generative AI Content Creation	5	5	0	100
21	20CH2E54 – Environmental Science and Sustainability	6	6	0	100
22	20CS2E65 – Cyber Security	3	3	0	100
23	20CE2E58 – Occupational Health and Safety	11	11	0	100

24	20IT2E54 – Introduction to Data Science	6	5	1	83.33
25	20EN2E02 – Art of Speaking	9	9	0	100
26	20EN2E01 – Life Skills and Personality Development	4	4	0	100
27	20EI219 – Leadership Excellence and Development	5	5	0	100
28	20CE206 – Architectural Conservation and Historic Preservation	3	3	0	100
29	20EC2E54 – Internet of Things	4	4	0	100
30	20CH2E52 – Green Chemistry for Engineers	4	3	1	75
31	20RA2E53 – Embedded Systems for Robotic Applications	2	2	0	100
32	20EI2E13 – Automation and Machine Vision Systems	1	1	0	100
33	20EC2E57 – Joy of Electronics	1	1	0	100

Programme: UG – EEE

Batch: 2023-2027

Semester: II

No of Students Appeared in all the subjects : 93

No of Students passed in all the subjects : 58

Overall Pass Percentage : 62.37%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA204 – Integral and Vector Calculus	94	84	10	89.36
2	20EC201 – Electron Devices	93	77	16	82.8
3	200EE201 – Electric Circuits	94	90	4	95.74
4	20EI251 – Sensor and Instrumentation	94	85	9	90.43
5	20HS210 – Intermediate English for Engineering	56	56	0	100
6	20IT241 – Programming in Python	94	71	23	75.53
7	20BS270 – Basic Sciences Laboratory	94	93	1	98.94
8	20EE270 – Electric Circuits and Electron Devices Laboratory	94	94	0	100
9	20IT291 – Programming in Python Laboratory	95	95	0	100
10	20HS209 – Advanced Business communication	16	16	0	100
11	20HS203 – Basic German	14	14	0	100
12	20HS204 – Basic Japanese	8	7	1	87.5

ITEM No.5:

- It is resolved that the following candidates who have registered for additional credits during Nov/Dec 2024 examination under the Specialization/Minor courses category

Verticals shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022.

Specialization Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Electric Vehicles Specialization	20EE2E25- Vehicle Dynamics and Engineering	71812203011	Deepakkumar R	8.33
		71812203013	Dhanya R	8.77
		71812203014	Dharanidharan G	8.2
		71812203015	Divya Rakshana M R	8.61
		71812203025	Hariharan V S	7.97
		71812203028	Hitesh Balaji N	7.93
		71812203032	Joselyn P	7.25
	20EE2E26- Energy Storage Systems	71812203041	Lohith S	7.29
		71812203104	Moneesha S S	0
		71812203107	Nithes Kumar J	8.95
		71812203113	Pavithra S	7.65
		71812203141	Vishwakanth K N	7.92
		71812203145	Sanjay B	0

ITEM No.6:

- The Chairperson presented the revised vision and mission of the institute to the Board members, highlighting its alignment with the Sustainable Development Goals (SDGs). The Board members expressed their strong appreciation for the updated vision and mission, recognizing their relevance and forward-thinking approach. After thorough discussion, the Board unanimously approved the revised vision and mission, acknowledging their potential to guide the institute towards a sustainable and impactful future.

ITEM No.7:

- The course 20EE2E29 – Charging Infrastructure for Electric Vehicles is offered to the Electric Vehicle Specialization students for the batch 2021-2025 during the seventh semester.

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. P. Subha Karuvelam, University Nominee:

- She suggested to motivate the students to pursue internships at the **National Skill Training Institute (NSTI)** in Chennai, as they offer valuable hands-on training in key areas of expertise. This opportunity would provide students with practical experience

and enhance their skills in critical domains, better preparing them for future career opportunities.

Suggestions given by Dr. K. Elanseralathan, Academic Expert:

- Recommended to include the topic **Applications of Hydrogen Energy in HEV** in the course **20EE2E40 – Hydrogen Energy**.
- Suggested to reduce the content of Hydrogen production and give more emphasis on hydrogen utilization in the course **20EE2E40 – Hydrogen Energy**.

Suggestions given by Mr. Premsunder Ravi, Industry Expert:

- Advised to include the topic **Applications of Hydrogen Energy in HEV** in the course **20EE2E40 – Hydrogen Energy**.

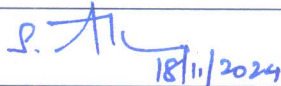
Suggestions given by Dr. S. Kumaravel, Subject Expert:

- The addition of new courses and its content has been highly appreciated, as they bring valuable insights, innovative perspectives, and knowledge to meet sustainable development goals.

Suggestions given by Mr. K. Jagadeesh, Alumni Member:

- Alumni member **appreciated** the effort in introducing the course **20EE2E40 – Hydrogen Energy** for the Electrical Engineering students, as it was the order of the day.
- Requested to include the topic **tariff calculations** in the course **20EE2E41 – Rural Electrification: Technologies and Economics**.
- Esteemed alumni member expressed high appreciation for the proposed vision and mission of the institute, particularly highlighting the strong emphasis placed on **sustainable development**. They commended the institute's forward-thinking approach, recognizing how the vision and mission align with long-term goals for environmental, social, and economic sustainability.

The Chairperson extended heartfelt thanks to all the Board members and faculty members for their valuable contributions and participation in the curriculum enrichment, and then formally concluded the meeting.

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	 18/11/2024
2.	Dr. P. Subha Karuvelam	University Nominee	Attended through virtual mode

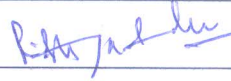
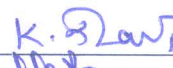
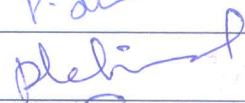
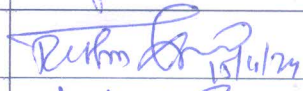
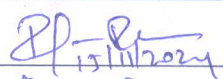
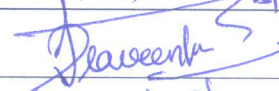
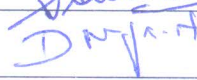
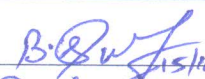
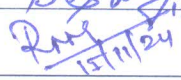
3.	Mr. Premsunder Ravi	Industrial Expert	Attended through virtual mode
4.	Dr. K. Elanseralathan	Academic Expert	Attended through virtual mode
5.	Dr. S. Kumaravel	Subject Expert	Attended through virtual mode
6.	Mr. K. Jagadeesh	Alumni Member	Attended through virtual mode
7.	Dr. K. Uthayarani	Member	<i>K. Uthayarani</i>
8.	Dr. R. Shanmugasundram	Member	<i>R. Shanmugasundram</i>
9.	Dr. K. Sebasthi Rani	Member	<i>K. S. Rani</i>
10.	Dr. K. Balamurugan	Member	<i>K. Balamurugan</i>
11.	Mr. V. Gopu	Member	<i>V. Gopu</i>
12.	Dr. P. Sebastian Vindro Jude	Member	<i>P. Sebastian Vindro Jude</i>
13.	Dr. M. Chindamani	Member	<i>M. Chindamani</i>
14.	Mr. R. Mohan Kumar	Member	<i>R. Mohan Kumar</i>
15.	Dr. R. Krishnakumar	Member	<i>R. Krishnakumar</i>
16.	Mrs. R. K. Ragavapriya	Member	<i>R. K. Ragavapriya</i>
17.	Dr. M. Ezhilarasi	Member	<i>M. Ezhilarasi</i>
18.	Mr. C. Praveenkumar	Member	<i>C. Praveenkumar</i>
19.	Dr. R. Kasthuri	Member	<i>R. Kasthuri</i>
20.	Mrs. E. Shanthini	Member	<i>E. Shanthini</i>

S. J. C.

**CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering**

Department of Electrical and Electronics Engineering
Attendance Sheet – 20th Board of Studies (UG)

15.11.2024

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Professor and Head	 15/11/2024
2	Dr. R. Shanmugasundram, Professor	
3	Dr. K. Sebasthirani, Associate Professor	 15-11-2024
4	Dr. K. Balamurugan, Associate Professor	 15/11/24
5	Mr. V. Gopu, Assistant Professor (Sl. Gr)	
6	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	
7	Dr. M. Chindamani, Assistant Professor (Sl. Gr)	
8	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	 15/11/24
9	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	 15/11/24
10	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	 15/11/2024
11	Dr. M. Ezhilarasi, Assistant Professor (Sl.Gr)	 15/11
12	Mr. C. Praveenkumar, Assistant Professor (Sl. Gr)	
13	Mrs. N. Divya, Assistant Professor (Sl.Gr)	 DN/11/24
14	Mr. B. Sridhar, Assistant Professor (Sl.Gr)	 15/11/24
15	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.Gr)	 15/11/24
16	Mrs. H. Vidhya, Assistant Professor (Sr.Gr)	 ML
17	Mr. B. Marisekar, Assistant Professor (Sr.Gr)	
18	Mr. R. Santhoshkumar, Assistant Professor (Sr.Gr)	


15/11/2024.
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

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VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022



Date: 15.11.2024

Department of Electrical and Electronics Engineering

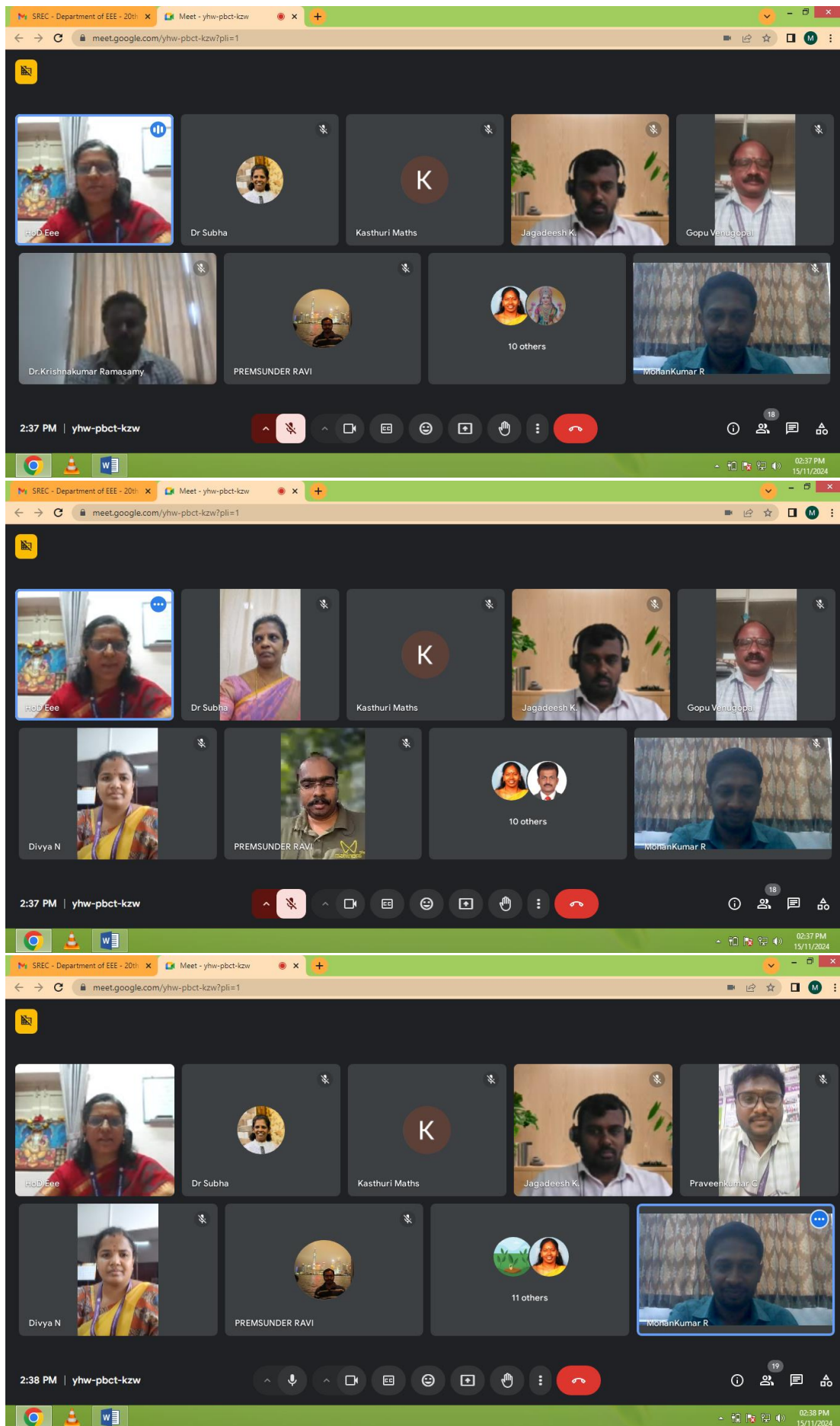
20th Board of Studies Meeting - Screenshots

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "SRI RAMAKRISHNA ENGINEERING COLLEGE Department of Electrical and Electronics Engineering 20th Board of Studies Meeting". The slide includes a photograph of the college building and the text "Hearty Welcome to all 15.11.2024". The presenter is HoD Eee. The right sidebar shows a list of participants: Chindamani Meyyappan, Dr Subha, Dr. Ezhilarasi Nagarajan, Dr.Krishnakumar Ramas..., Gopu Venugopal, HoD Eee Meeting host, HoD Eee Presentation, and Jagadeesh K. The bottom status bar indicates the time is 2:28 PM and the meeting ID is yhw-pbct-kzw.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Boards of Studies Members". The slide contains a table with the following data:

S. No	Name of the Member	Constitution of the Committee
1	Dr. S. Allirani Professor & Head	Chairperson, BoS - EEE
2	Dr. P. Subha Karuvelam Professor, Department of EEE, Government College of Engineering, Tirunelveli	University Nominee
3	Mr. Preamsunder Ravi Senior Program Manager, M/s. Mahindra & Mahindra Ltd, Mahindra Technical Academy, Chennai	Industrial Expert
4	Dr. K. Elanseralathan Professor & Head, Electrical and Electronics Engineering, Puducherry Technological University, Puducherry	Academic Expert
5	Dr. S. Kumaravel Associate Professor, Department of Electrical Engineering, National Institute of Technology, Calicut, Kerala - 673 601	Subject Expert (from Other University)
6	Mr. K. Jagadeesh Deputy General Manager, M/s. Schneider Electric India Pvt. Ltd., Bangalore	Alumni Member (Batch: 2007 - 2011)

The presenter is HoD Eee. The right sidebar shows a list of participants: Chindamani Meyyappan, Dr Subha, Dr. Ezhilarasi Nagarajan, Dr.Krishnakumar Ramas..., Gopu Venugopal, HoD Eee Meeting host, HoD Eee Presentation, and Jagadeesh K. The bottom status bar indicates the time is 2:28 PM and the meeting ID is yhw-pbct-kzw.



SREC - Department of EEE - 20th Meet - yhw-pbct-kzw

meet.google.com/yhw-pbct-kzw?pli=1

2:38 PM | yhw-pbct-kzw

HoD Eee, Dr Subha, Kasthuri Maths, Jagadeesh K, Sebasthirani kathalingam, Chindamani Meyyappan, PREMSUNDER RAVI, 11 others, MohanKumar R

2:38 PM | yhw-pbct-kzw

HoD Eee, Dr Subha, Kasthuri Maths, Jagadeesh K, Sebasthirani kathalingam, Prof. & Head, EEE, PREMSUNDER RAVI, 11 others, MohanKumar R

2:38 PM | yhw-pbct-kzw

HoD Eee (Presenting, annotating)

Agenda

UG - BE - EEE

- Vission & Mission of the Institution
- Revised Regulation 2020
- Proposed Professional Elective Courses
- NPTEL Courses for Credit Transfer
- Result Analysis - Even Semester - AY: 2023-24
- Specialization/Minor Courses Offered

2:41 PM | yhw-pbct-kzw

People

Add people

PREMSUNDER RAVI, Prof. & Head, EEE, Ragavapriya krishnasamy, Santhosh Kumar R EEE, Sebasthirani kathalingam, shanmugasundram Ram..., Sridhar BEEE

2:44 PM | yhw-pbct-kzw

Proposed Vision & Mission of SREC

PROPOSED VISION	PROPOSED MISSION
To become a world-class university excelling in multidisciplinary engineering education through cutting-edge technologies and impactful societal contributions for sustainable development	Provide quality education that builds strong technical, analytical and managerial skills for future professionals. (Deliver Quality Engineering Education) (M1)
	Nurture creativity, innovation and research ecosystem for local and global needs (Encourage Research and Innovation) (M2)
	Foster ethics, leadership, entrepreneurial and life skills for holistic development (Foster Holistic Growth) (M3)
	Develop technological solutions that enhance sustainability and societal well-being through collaborations (Contribute to Sustainable Development) (M4)

Key Indicators	M1	M2	M3	M4
Multidisciplinary Engineering	3	2	3	2
Cutting-edge Technologies	3	3	2	3
Impactful Societal Contributions	2	2	3	3
Sustainable Development	3	3	3	3

20th Bos - EEE - SREC 15-Nov-24 5

2:44 PM | yhw-pbct-kzw

2:49 PM | yhw-pbct-kzw

Proposed Professional Electives - 20th Bos

S. No	Course Code	Course Title	Category	Contact Hours/Week	L	T	P	C
1	20EE2E40	Hydrogen Energy	PE	3	3	0	0	3
2	20EE2E41	Rural Electrification: Technologies and Economics	PE	3	3	0	0	3

2:49 PM | yhw-pbct-kzw

2:54 PM | yhw-pbct-kzw

Specialization Courses

It is resolved that the following candidates who have registered for additional credits during Nov/Dec 2024 examination under the Specialization courses category Verticals shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022

Specialization Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Electric Vehicles Specialization	20EE2E25- Vehicle Dynamics and Engineering	71812203011	Deepakkumar R	8.33
		71812203013	Dhanya R	8.77
		71812203014	Dharanidharan G	8.2
		71812203015	Divya Rakshana M R	8.61
		71812203025	Hariharan V S	7.97
		71812203028	Hitesh Balaji N	7.93
	20EE2E26- Energy Storage Systems	71812203032	Joselyn P	7.25
		71812203041	Lohith S	7.29
		71812203104	Moneesha S S	0
		71812203107	Nithes Kumar J	8.95
		71812203113	Pavithra S	7.65
		71812203141	Vishwakanth K N	7.92
		71812203145	Sanjay B	0

2:54 PM | yhw-pbct-kzw



SREC - EEE - 20th BoS Minutes of Meeting - Approval

1 message

Dr.Subha <subha@gcetly.ac.in>

Fri, 29 Nov, 2024 at 12:19

To: HoD Eee <hod-eee@srec.ac.in>

I approve the minutes and you may proceed further.
Dr.P.Subha, Professor (CAS)/EEE, GCE, Tirunelveli

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| [Quoted text hidden]



SREC - EEE - 20th BoS Minutes of Meeting - Approval

1 message

RAVI PREMSUNDER <RAVI.PREMSUNDER@mahindra.com>
To: HoD Eee <hod-eee@srec.ac.in>
Cc: kumaravel_s@nitc.ac.in <kumaravel_s@nitc.ac.in>, Prof. & Head, EEE <hod.eee@ptuniv.edu.in>, subha@gcetly.ac.in <subha@gcetly.ac.in>, jagadeesh.k@Intebg.com <jagadeesh.k@Intebg.com>

Tue, 3 Dec, 2024 at 08:58

Dear Dr. Allirani,

Thank you for re-inducting me as a member of the BoS for the Dept of EEE at SREC for a second term. I deeply appreciate the opportunity to contribute once again to this esteemed institution and to collaborate with the new experts who have joined as BoS members.

I have reviewed the minutes from the recently concluded 20th BoS meeting and am pleased to approve them as shared. Please proceed accordingly.

Thank you once again for your trust and consideration.

Best Regards
Prem Sunder R
Sr. Program Manager – Tech. Capability Building
Mahindra Technical Academy

From: HoD Eee <hod-eee@srec.ac.in>
Sent: Thursday, November 28, 2024 10:55 PM
To: kumaravel_s@nitc.ac.in; Prof. & Head, EEE <hod.eee@ptuniv.edu.in>; subha@gcetly.ac.in; RAVI PREMSUNDER <RAVI.PREMSUNDER@mahindra.com>; jagadeesh.k@Intebg.com
Subject: SREC - EEE - 20th BoS Minutes of Meeting - Approval

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SREC - EEE - 20th BoS Minutes of Meeting - Approval

1 message

Prof. & Head, EEE <hod.eee@ptuniv.edu.in>

Mon, 2 Dec, 2024 at 11:02

To: HoD Eee <hod-eee@srec.ac.in>

Dear Mm,
Appreciate your efforts for including subjects with latest technological development.

I have gone through the minutes and hereby approve the same.

Best regards
Prof. Elanseralathan
PTU

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| [Quoted text hidden]



SREC - EEE - 20th BoS Minutes of Meeting - Approval

1 message

kumaravel <kumaravel_s@nitc.ac.in>
Reply to: kumaravel_s@nitc.ac.in
To: HoD Eee <hod-eee@srec.ac.in>
Cc: Prof. & Head, EEE <hod.eee@ptuniv.edu.in>, subha@gcetly.ac.in, RAVI PREMSUNDER <RAVI.PREMSUNDER@mahindra.com>, jagadeesh.k@Intebg.com

Fri, 29 Nov, 2024 at 11:06

Dear Madam,

Thank you for sharing the minutes of the 20th Board of Studies (BoS) meeting. After reviewing the attached minutes of the meeting, I find them comprehensive and reflective of the discussions held. I am pleased to approve the same.

With best regards,
Dr. Kumaravel S., Ph.D., PDF (UCD-Ireland),
Visvesvaraya Young Faculty Research Fellow from MeitY, Govt. of India,
Associate Professor,
Department of Electrical Engineering,
National Institute of Technology Calicut,
Calicut, Kerala.
mail: kumaravel_s@nitc.ac.in
web: <https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/b681c4cb-2694-4ee9-b826-c9b41378654d>
Mobile phone: 09645654204

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SREC - EEE - 20th BoS Minutes of Meeting - Approval

1 message

Jagadeesh Kandhaswamy <jagadeesh.k@se.com>
To: HoD Eee <hod-eee@srec.ac.in>
Cc: kumaravel_s@nitc.ac.in <kumaravel_s@nitc.ac.in>, Prof. & Head, EEE <hod.eee@ptuniv.edu.in>, subha@gcetly.ac.in <subha@gcetly.ac.in>, RAVI PREMSUNDER <RAVI.PREMSUNDER@mahindra.com>

Mon, 2 Dec, 2024 at 10:26

Dear Mam,

It was wonderful meet & really appreciating the vision towards balanced syllabus on both core as well as sustainable technologies front.

Grateful for considering the feedback, approved the summary please proceed.

All the very best!

Thanks & Regards
Jagadeesh K,
DGM-Design & Developmnet
Electrical Systems & Equipment
Scheinder Electric India Pvt Ltd
Coimbatore.

General

From: HoD Eee <hod-eee@srec.ac.in>
Sent: Thursday, November 28, 2024 10:55 PM
To: kumaravel_s@nitc.ac.in; Prof. & Head, EEE <hod.eee@ptuniv.edu.in>; subha@gcetly.ac.in; RAVI PREMSUNDER <RAVI.PREMSUNDER@mahindra.com>; Jagadeesh Kandhaswamy <jagadeesh.k@se.com>
Subject: SREC - EEE - 20th BoS Minutes of Meeting - Approval

[External email: Use caution with links and attachments]

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[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 19th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 28.03.2024 AT 10.30 AM IN THE ECE SEMINAR HALL.

The following members attended the above meeting.

1. **Dr. S. Allirani**, Associate Professor & Head_(i/c) – Chairperson, BoS – EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Professor (CAS), Department of EEE, Government College of Engineering, Bodinayakanur.
3. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITACHI Energy, Chennai.
4. **Mr. Preamsunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Puducherry Technological University, Puducherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
9. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
10. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
13. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
14. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Prof Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 19th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1:

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2021 & onwards.

ITEM No.2:

- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Contact Hours / Week	L	T	P	C
1	20EE2E37	Design of Power Electronic Systems	3	3	0	0	3
2	20EE2E38	Automotive Embedded Systems	3	3	0	0	3
3	20EE2E39	Embedded Control of Electric Drives	3	3	0	0	3

ITEM No.3:

- It is resolved that the Electrical CAD will be given as the Value Added Course under (Revised) Regulations 2020 be approved and passed.

S. No	Course Title	Industry
1	Electrical CAD	INCICO India Engineering Private Ltd, Coimbatore

ITEM No.4:

- It is resolved that the following NPTEL courses are approved for credit transfer during April/May 2024.

(A) For Credit Transfer under Professional Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OPE40	Modern Computer Vision	3	12
2.	OPE41	Power Management Integrated Circuits	3	12
3.	OPE42	Computer Aided Design of Electrical Machines	3	12

(B) For Credit Transfer under Open Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OOE44	Organizational Behaviour: Individual Dynamics in Organization	3	12
2.	OOE45	Leadership and Team Effectiveness	3	12

ITEM No.5:

- It is resolved that the Result Analysis for the Academic Year 2023 – 204 (Semesters VII / V/ III) are approved and passed.

Programme: UG – EEE**Batch: 2020-2024****Semester: VII**

No of Students Appeared in all the subjects : 123

No of Students passed in all the subjects : 104

Overall Pass Percentage : **84.55%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE2E04 – Power Quality	125	106	19	84.8
2	20EE2E05 – Smart Energy Delivery Systems	125	116	9	92.8
3	20EE2E08 – Special Electrical Machines	124	118	6	95.16
4	20EEI001 – Industrial IoT (Using Fully Open Source)	18	18	0	100
5	20EEI002 – Energy Management and Audit	16	16	0	100
6	20EEI003 – Solar PV Installation and Commissioning	46	46	0	100
7	20EEI004 – Power Semiconductors - Characteristics, Driving and Applications	103	103	0	100
8	20EEI005 – Industrial Automation PLC and SCADA	107	107	0	100
9	20EEI008 – Cyber Security Enabled IoT	40	40	0	100
10	20EE278 – Live in Lab	13	13	0	100
11	20EE273 – Power System Simulation Laboratory	4	4	0	100
12	20EE274 – Power Electronics and Drives Laboratory	4	4	0	100
13	20EE2E14 – HVDC and FACTS Systems	3	2	1	66.67
14	20EE2E04 – Power Quality	125	106	19	84.8

Programme: UG – EEE**Batch: 2021-2025****Semester: V**

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 61

Overall Pass Percentage : **62.24%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE206 - Induction And Synchronous	98	89	9	90.82

	Machines				
2	20EE207 - Power Electronics	98	68	30	69.39
3	20EE208 - Transmission and Distribution of Electrical Energy	98	79	19	80.61
4	20EE210 - Total Quality Management	98	96	2	97.96
5	20EE2E02 - Wind and Solar Energy Systems	98	95	3	96.94
6	20EI209 - Microcontrollers and Embedded Systems	98	79	19	80.61
7	20CS242 - Artificial Intelligence	98	92	6	93.88
8	20EE272 - Induction and Synchronous Machines Laboratory	98	96	2	97.96
9	20EI275 - Microcontrollers and Embedded System Laboratory	98	96	2	97.96
10	20EE2E14 - HVDC and FACTS Systems	41	41	0	100
11	20EE2E25 - Vehicle Dynamics and Engineering	26	26	0	100
12	20EE2E26 - Energy Storage Systems	26	26	0	100
13	20EI2E12 - Programmable Logic Controller	16	16	0	100
14	20AD2E53 - Software Development Essentials	3	3	0	100
15	20EC2E51 - Consumer Electronics	17	16	1	94.12
16	20CH2E52 - Green Chemistry for Engineers	19	19	0	100
17	20IT2E54 - Introduction to Data Science	10	10	0	100
18	20CE206 - Architectural Conservation and Historic Preservation	4	4	0	100
19	20MA209 - Vedic Mathematics	8	8	0	100
20	20CH2E54 - Environmental Science and Sustainability	4	4	0	100
21	20CE2E51 - Waste Management	8	8	0	100
22	20CE207 - Cultural Implications on Building Design	4	4	0	100
23	20EN2E03 - Generic Skills for Employability	2	2	0	100
24	20AE2E54 - Automotive Aerodynamics	3	3	0	100
25	20EI219 - Leadership Excellence and Development	3	3	0	100
26	20EN2E04 - Generic Perspective in Team Building and Leadership	1	1	0	100
27	20MA2E02 - Mathematics for Machine Learning	1	1	0	100
28	20MA2E04 - Statistics For Big Data Analytics	3	3	0	100

29	20RA2E56 - Exploring Controllers for Robotics	3	3	0	100
30	20EC2E57 - Joy of Electronics	1	1	0	100
31	NOC23-CS51 - Introduction to Internet of Things	3	3	0	100
32	NOC23-EE66 - Sensors and Actuators	1	1	0	100
33	NOC23-CS20 - The Joy of Computing Using Python	3	3	0	100
34	20EE235 - Positive Psychology	1	1	0	100
35	20EEI002 - Energy Management and Audit	55	55	0	100
36	20EEI003 - Solar PV Installation and Commissioning	42	42	0	100

Programme: UG – EEE

Batch: 2022-2026

Semester: III

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 60

Overall Pass Percentage : 61.22%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA211 - Transforms and Partial Differential Equations	98	68	30	69.39
2	20EE202 - Network Analysis and Synthesis	98	91	7	92.86
3	20EE203 - Electromagnetics	98	80	18	81.63
4	20EC204 - Digital System Design	98	82	16	83.67
5	20EI206 - Analog Integrated Circuits	98	91	7	92.86
6	20EE217 - Electric Vehicle Technology	98	88	10	89.8
7	20EC271 - Digital System Design Laboratory	98	97	1	98.98
8	20EI273 - Analog Integrated Circuits Laboratory	98	97	1	98.98
9	20IT2101 - Design Thinking	84	84	0	100
10	20EN2E02 - Art of Speaking	6	6	0	100
11	20CS2E61 - Python for Data Science	6	4	2	66.67
12	20AE2E55 - Space: The Final Frontier	16	14	0	87.5
13	20IT2E51 - Android Application Development	12	11	1	91.67
14	20AD2E52 - Foundations for Web Programming	9	8	1	88.89

15	20CE2E54 - Disaster Management	11	11	0	100
16	20CH2E54 - Environmental Science and Sustainability	8	6	2	75
17	20EC2E53 - Image Processing and Applications	4	3	1	75
18	20ME2E01 - Intellectual Property Rights for Engineers	5	5	0	100
19	20EI2E14 - Testing Calibration of Equipments	15	14	1	93.33
20	20RA2E51 - Automation in Industry 4.0	2	2	0	100
21	20EN2E01- Life Skill and Personality Development	4	4	0	100
22	20BS270 - Basics Sciences Laboratory	1	1	0	100

Programme: PG – PED

Batch: 2022-2024

Semester: III

No of Students Appeared in all the subjects : 1

No of Students passed in all the subjects : 1

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	22EE1E01 – Modern Rectifiers and Resonant Converters	1	1	0	100
2	22EE1E03 – Control of Power Electronics Circuits	1	1	0	100
3	22EE1E09 – Electric Vehicles and Power Management	1	1	0	100
4	22EE1301 – Project Dissertation - I	1	1	0	100

ITEM No.6:

- It is resolved that the following specialization courses are offered during the even semester of Academic Year 2023 – 2024 and the following eligible students be approved for the **Honors Specialization in B.E. Electrical and Electronics Engineering** degree programme.

Specialization Course	Course Code and Title	Register Number	Student Name
Electric Vehicles	20EE2E27 - Automotive Transmission Systems	2003137	Tamil M
		71812103001	Aanusri Ramesh
		71812103004	Abishek T
		71812103008	Anusha K
		71812103010	Archana A S

	20EE2E28 - Battery Pack Design and Thermal Management	71812103013	Ashwin S
		71812103019	Boomitha S
		71812103023	Elakkiya S R
		71812103025	Gokul Nathan M
		71812103036	Ilakkiya G
		71812103038	Jeevitha S
		71812103040	Jovarshini S
		71812103046	Ganeshkumar S
		71812103102	Kingsy Shekena D B
		71812103103	Kishoore M
		71812103105	Madhan A
		71812103114	Priyadharshini S
		71812103118	Sanjai Joyel R B
		71812103119	Sanjay Aravind K
		71812103132	Srihari S
		71812103134	Subramanian K
		71812103139	Thirumurugan P
		71812103141	Varshini V
		71812103146	Pranesh Sharaathi D
		71812103147	Surya V
		71812103148	Rajesh S

ITEM No.7:

- It is resolved that the following Mandatory courses be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

Batch: 2020 - 2024

S. No	Course Code	Course Name	No. of Students Completed
1	20MC208	Soft Skills (Leadership And Workplace Etiquette)	87
2	20MC004	National Service Scheme	2
3	20MC212	Tamil Mandram	16
4	20MC031	EEETA	6
5	20MC203	National Cadet Corps (NCC)	5
6	20MC214	Philatelic Club	3
7	20MC201	Sports and Games	1
8	20MC202	Empowerment Through Yoga	2
9	20MC082	SEDS India Students Chapter SREC	1
10	20MC215	Phorartz Club	2
13	20AE201	Indian Space Missions	7
14	20CE207	Cultural Implications	2

Batch: 2021 - 2025

S. No	Mandatory Course	Course Code	No. of Students Completed
1	20MC275	Technical Certification Course	98
2	20MC031	Association of Electrical and Electronics Engineering	11
3	20MC032	Indian Association of Energy Management Professionals (IAEMP)	2
4	20MC208	Leadership and Workplace Etiquette	7
5	20MC204	National Service Scheme (Unit-I)	7
6	20MC214	Philatelic Club	4
7	20MC215	Phorartz Club	2
8	20MC213	Renewable Energy Club	31
9	20MC210	Science Association	1
10	20MC208	Soft Skills (Leadership and Workplace Etiquette)	2
11	20MC201	Sports and Games	1
12	20MC212	Tamil Mandram	1
13	20MC222	Yi YUVA-SREC	17
14	20MC205	Youth Red Cross	1

ITEM No.8:

- It is resolved that the following students had completed 4/6 weeks of internship / inplant training be approved for the student in B.E. Electrical and Electronics Engineering degree programme.

S. No	Company Name	No. of Students Completed
1	Aquapump Industries, Coimbatore	1
2	A to Z all Machine Manufacturing Company, Pondicherry	1
3	Aerospace Engineering Private Limited	1
4	Anugraha Valve Castings Private Limited, Coimbatore	1
5	Aquapump Industries, Coimbatore	1
6	BHEL, Ranipet	1
7	C.R.I Pumps Private Limited, Coimbatore	5
8	Coral Rewinding India Private Limited, Erode	2
9	Electrical Engineering Company, Coimbatore	2
10	Electro Drive Powertrain Solutions Pvt Ltd , Coimbatore	30
11	Foretec Electric India Private Limited, Coimbatore	2
12	Futuretech Engineering, Coimbatore	3
13	Healthcare Technology Innovation Centre, Chennai	1
14	HH Iron and Steel Pvt Ltd, Coimbatore	2
15	Hi-Tech Automations, Coimbatore	3

16	Hindustan Hardwares - JSW Steel (Stock), Coimbatore	3
17	Hindustan Heavy Electricals Pvt Ltd, Coimbatore	2
18	Hindustan Industries, Coimbatore	1
19	JSW Steel Ltd, Salem	1
20	Krish Tec, Coimbatore	5
21	K-Tech Engineering, Coimbatore	1
22	Magnetic and Control, Coimbatore	8
23	Mahindra Research Valley, Chennai	14
24	Mass Auto Components, Chennai	1
25	Mettur Thermal Power Plant, Salem	1
26	NARK MS-Unit of C.R.I Pumps Pvt Ltd, Coimbatore	3
27	Padmavahini Transformers Private Limited, CBE	2
28	PRD RIGS India Private Limited, Salem	1
29	Pricol Engineering Industries Private Limited, CBE	1
30	Roots Industries Private Limited, Coimbatore	2
31	RR Rewinding Works, Erode	3
32	SAIL Steel Plant, Salem	10
33	Salzer Election Limited, Coimbatore	10
34	Schneider Electric India Private Limited, Coimbatore	2
35	Shree R.R Machine Tools, Pondicherry	1
36	Smart India Hackathon	3
37	Mettur Thermal Power Station 1, Mettur	1
38	Terra Aqua Pump Products, Coimbatore	3
39	Tex Pumps, Coimbatore	2
40	TNEB, Kuthalam	1
41	Vasantha Advanced Systems, Coimbatore	4
42	Vels Wind Power Private Limited, Aralvaimozhi	1
43	Versa Drives Private Limited, Coimbatore	7
44	Live In Lab	5

ITEM No.9:

- It is resolved that the curriculum for the B.E. Electrical and Electronics Engineering programme for **working professionals** as communicated by AICTE through AICTE/P&AP/APH/2023-24/01 dated 24.08.2023 may be started with approval from Anna University, Chennai.

S. No.	Course Title	L	T	P	C
Humanities and Social Science (HS)					
1	Principles of Management	2	0	0	2
2	Total Quality Management	2	0	0	2
3	Project and Finance Management	2	0	0	2

4	Liberal arts	1	0	0	1
Basic Sciences (BS)					
5	Disruptive Technologies	2	0	0	2
6	Transforms and Partial Differential Equations	2	1	0	3
7	Artificial Intelligence	2	0	0	2
8	Probability, Statistics and Numerical Methods	2	1	0	3
Engineering Sciences (ES)					
9	Electromagnetics	2	1	0	3
10	Data Structures and Algorithm Analysis	2	0	0	2
11	Data Structures and Algorithm Analysis Laboratory	0	0	2	1
12	Network Analysis and Synthesis	2	1	0	3
Professional Core (PC)					
13	DC Machines and Transformers	3	1	0	4
14	DC Machines and Transformers Laboratory	0	0	2	1
15	Induction and Synchronous Machines	3	1	0	4
16	Induction and Synchronous Machines Laboratory	0	0	2	1
17	Analog Integrated Circuits	3	0	0	3
18	Analog Integrated Circuits Laboratory	0	0	2	1
19	Control Systems	3	1	0	4
20	Control Systems Laboratory	0	0	2	1
21	Digital System Design	3	0	0	3
22	Digital System Design Laboratory	0	0	2	1
23	Electric Vehicle Technology	2	0	0	2
24	Renewable Energy	2	0	0	2
25	Transmission and Distribution of Electrical Energy	3	0	0	3
26	Power Electronics	2	1	0	3
27	Microcontroller and Embedded System	3	0	0	3
28	Model Based System Design	2	0	2	3
29	Microcontroller and Embedded System Laboratory	0	0	2	1
30	Power System Protection and Switchgear	3	0	0	3
31	Electric Drives and Control	3	0	0	3
32	Power System Analysis	3	1	0	4
33	Smart Grid and Data Analytics	2	0	0	2
34	Power System Simulation Laboratory	0	0	2	1
35	Power Electronics and Drives Laboratory	0	0	2	1
Professional Elective (PE)					
36	Electric Energy Generation, Utilization and Conservation	3	0	0	3
37	Wind and Solar Energy Systems	3	0	0	3
38	Power System Economics and Control Techniques	3	0	0	3
39	Power Quality	3	0	0	3
40	Smart Energy Delivery Systems	3	0	0	3
41	Design of Electrical Apparatus	3	0	0	3

42	Electrical and Industrial Safety Engineering	3	0	0	3
43	Special Electrical Machines	3	0	0	3
44	Managing Innovation and Entrepreneurship	3	0	0	3
45	Power Electronics Applications in Power Systems	3	0	0	3
46	Advanced Control Theory	3	0	0	3
47	Illumination Engineering	3	0	0	3
48	Electronic Product Design	3	0	0	3
49	HVDC and FACTS Systems	3	0	0	3
50	Robotics and Automation	3	0	0	3
51	Digital Control Systems	3	0	0	3
52	Advanced Digital Signal Processing	3	0	0	3
53	Advanced Power Electronic Converters	3	0	0	3
54	Soft-Computing Techniques and Applications	3	0	0	3
55	Electromagnetic Compatibility and Electromagnetic Interference	3	0	0	3
56	Substation Engineering and Automation	3	0	0	3
57	Electric Machine Drives for EV	3	0	0	3
58	Grid Integrating Techniques and Challenges	3	0	0	3
59	Smart Automation System	3	0	0	3
60	Vehicle Dynamics and Engineering	3	0	0	3
61	Energy Storage Systems	3	0	0	3
62	Automotive Transmission Systems	3	0	0	3
63	Battery Pack Design and Thermal Management	3	0	0	3
64	Charging Infrastructure for Electric Vehicles	3	0	0	3
65	Drive Train Technologies and Controls	3	0	0	3
66	Electric Vehicle Laboratory	3	0	0	3
67	Mini Project	3	0	0	3
68	Internship	3	0	0	3
69	Nanotechnology for Energy System	3	0	0	3
70	Electrical Estimation and Costing	3	0	0	3
71	Sustainable Energy and Development Models	3	0	0	3
Open Electives (OE)					
72	Renewable Energy Systems	3	0	0	3
73	Power Generation Systems	3	0	0	3
74	Troubleshooting of Electrical Apparatus	3	0	0	3
75	Electric and Hybrid Vehicles	3	0	0	3
76	Electrical Machines and Drives	3	0	0	3
77	Testing of Electric Vehicles	3	0	0	3
78	Battery Pack Architecture for Electric Vehicles	3	0	0	3
79	Charging Infrastructure for Electric Vehicles	3	0	0	3
80	Electrical Safety Engineering	3	0	0	3
81	Solid State Power Semiconductor Devices	3	0	0	3

One Credit Courses (OCs)		
82	Industrial IoT (using fully open source)	Kalycito Info Tech Pvt. Ltd., Coimbatore
83	Energy Management and Audit	Encon Energy Solutions, Coimbatore
84	Solar PV Installation and Commissioning	Progen Energy Solutions, Coimbatore
85	Power Semiconductors - Characteristics, Driving and Applications	ABB Limited, Chennai
86	Industrial Automation (PLC and SCADA)	Axis Global Automation, Coimbatore
87	Magnetics	Salzer Electronics Pvt. Ltd, Coimbatore
88	E-Vehicle: The Future	Spero Bikes, Coimbatore
89	Cyber Security Enabled IoT	Central Power Research Institute, Bangaluru
90	Industrial Digitalization	M/s. ELGI Equipment Limited, Coimbatore
91	Electric Mobility – Idea to Innovation	M/s. Mahindra & Mahindra, Chennai
92	Foundations of Electric Vehicles	M/s. Devise Electronics Ltd, Pune

Distribution of Credits

S. No	Category	Credits per semester						Credits Total
		I	II	III	IV	V	VI	
1	Humanities and Social Science including Management Courses (HS)	3	-	-	-	2	-	05
2	Basic Science Courses (BS)	2	5	3	-	-	-	10
3	Engineering Sciences Courses (ES)	6	3	-	-	-	-	09
4	Professional Core Courses (PC)	5	9	13	13	14	-	54
5	Professional Elective Courses (PE)	-	-	3	9	6	-	18
6	Open Elective Courses (OE)	3	3	3	-	-	-	09
7	Project Work, seminar and internship in industry or elsewhere (EEC)	2		2			8	15
		1	2					
8	Mandatory Courses (Non-Credit)	#						NC
	Total	20	22	22	24	24	8	120

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. Sujatha Balaraman, University Nominee:

- In the course 20EE2E37 - Design of Power Electronic Systems requested to **eliminate the topic Introduction to Intelligent Power Module** in the module Measurements and Signal Conditioning.
- Also recommended to **include P02** for the Course 20EE2E37 - Design of Power Electronic Systems.
- In the curriculum BE for working professionals program, she **recommended to incorporate capstone projects instead of internships**, considering that the students are already employed in the industry.

Suggestions given by Dr. D. Madhan Mohan, Industry Expert:

- Recommended to add the topic **MQTT** in the module Communication Protocols of the course 20EE2E38 - Automotive Embedded Systems.
- In the course 20EE2E37 - Design of Power Electronic Systems, suggested to include the topics **Thermal Design, Thermal Modelling and Thermal Equivalent Circuit** in the module Design of Protection Circuits.

Suggestions given by Mr. Prem Sundar Ravi, Industry Expert:

- Suggested to add the topic **selection of input and output pins** in the module Introduction to Embedded Systems of the course 20EE2E38 - Automotive Embedded Systems.
- Suggested to add the topic **Power Stage, Infotainment System and Applications** in the module Electronic Engine Controls of the course 20EE2E38 - Automotive Embedded Systems.

Suggestions given by Dr. S. Jeevnathan, Academic Expert from other University:

- Recommended to **eliminate the module PCB Design** in the course 20EE2E37 - Design of Power Electronic Systems.
- Module Passive Elements and Filter Design can be **split into two paragraphs** in the course 20EE2E37 - Design of Power Electronic Systems.
- Suggested to include the topic **Gate Drive Design** in the module Gate and Base Drive Design of the course 20EE2E37 - Design of Power Electronic Systems.
- Suggested to include the topic **Types of Heat Sink** in the module Design of Protection Circuits of the course 20EE2E37 - Design of Power Electronic Systems.
- Recommended to include the topic **Types of Sensors and Conditioning Circuit** in the module Measurements and Signal Conditioning of the course 20EE2E37 - Design of Power Electronic Systems.

- For the course 20EE2E37 - Design of Power Electronic Systems suggested to include the following **books**
 - ✓ "Elements of Power Electronics" by Philip T Krein, Oxford University Press Publication, 2014.
 - ✓ "Principles of Power Electronics" by John G. Kassakian, David J. Perreault, George C. Verghese, Martin F. Schlecht, Cambridge University Press Publications, 2nd Edition, 2023.
 - ✓ "Power Electronics" by M. S. Jamil Asghar, Published by Prentice Hall India Learning Private Limited, 2004.
- Also requested **Data Sheet Interpretation** for the course 20EE2E37 - Design of Power Electronic Systems.

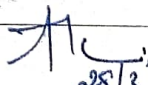
Suggestions given by Dr. L. Ashok Kumar, Academic Expert:

- Recommended to add the topics **Ethernet, Smart bus and Integrated Development Environment (IDE)** in the module Communication Protocols of the course 20EE2E38 - Automotive Embedded Systems.
- In the course 20EE2E37 - Design of Power Electronic Systems suggested to **reframe the Course Outcome1**.
- Also suggested to include recent ICs, **Silicon Carbide (SiC), Wide Bandgap Semiconductors (WBG)** in the Module Gate and Base Drive Design for the course 20EE2E37 - Design of Power Electronic Systems.

Suggestions given by S. Vinothkumar, Alumni Member:

- Requested to change the Module title Measurements and Signal Conditioning as **Sensing and Signal Conditioning** in the course 20EE2E37 - Design of Power Electronic Systems.
- Proposed that the **module Passive Elements and Filter Design should follow the module on Magnetics Design** in course the 20EE2E37 - Design of Power Electronic Systems.

All the Board members are appreciated the effort taken towards the B.E - curriculum for the Working Professionals.

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	S.  28/3/2024

2.	Dr. Sujatha Balaraman	University Nominee	<i>[Signature]</i> 28/3/24
3.	Dr. D. Madhan Mohan	Industrial Expert	<i>[Signature]</i> 28/3/24
4.	Mr. Prem Sunder Ravi	Industrial Expert	<i>[Signature]</i> 28/3/2024
5.	Dr. L. Ashok Kumar	Academic Expert	<i>[Signature]</i> 28/3/24
6.	Dr. S. Jeevananthan	Subject Expert	<i>[Signature]</i>
7.	Mr. S. Vinoth Kumar	Alumni Member	<i>[Signature]</i> 28/03/2024.
8.	Dr. K. Uthayarani	Member	<i>[Signature]</i> 28/3/24
9.	Dr. C. S. Ravichandran	Member	<i>[Signature]</i> 28/3/24
10.	Dr. R. Shanmugasundaram	Member	<i>[Signature]</i> 28/3/2024
11.	Dr. K. Sebastirani	Member	<i>[Signature]</i> 28/3/2024
12.	Dr. K. Balamurugan	Member	<i>[Signature]</i> 28/3/24
13.	Dr. P. Sebastian Vindro Jude	Member	<i>[Signature]</i> 28/3/2024
14.	Mr. R. Mohan Kumar	Member	<i>[Signature]</i> 28/3/2024
15.	Dr. R. Krishnakumar	Member	<i>[Signature]</i> 28/3/24
16.	Dr. R. Kasthuri	Member	<i>[Signature]</i>
17.	Mrs. E. Shanthini	Member	<i>[Signature]</i> 28/3/24

[Signature] 28/3/2024
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 19th Board of Studies (UG)

28.03.2024

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Associate Professor and Head(I/c)	S. Allirani 28/3/2024
2	Dr. C. S. Ravichandran, Professor	C. S. Ravichandran 28/3/24
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram 28/3/2024
4	Dr. K. Sebasthirani, Associate Professor	K. Sebasthirani 28/3/2024
5	Dr. K. Balamurugan, Associate Professor	K. Balamurugan 28/3/24
6	Mr. V. Gopu, Assistant Professor (Sl. Gr)	V. Gopu 28/3/2024
7	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	P. Sebastian Vindro Jude 28/3/2024
8	Dr. M. Chindamani, Assistant Professor (Sl. Gr)	M. Chindamani 28/3/24
9	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	R. Mohan Kumar 28/3/24
10	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	R. Krishnakumar 28/3/24
11	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	R. K. Ragavapriya 28/3/2024
12	Mr. C. Praveenkumar, Assistant Professor (Sl. Gr)	C. Praveenkumar 28/3/24
13	Dr. M. Ezhilarasi, Assistant Professor (Sl.G)	M. Ezhilarasi 28/3/24
14	Mr. B. Sridhar, Assistant Professor (Sr.G)	B. Sridhar 28/3/24
15	Mr. S. M. Balaganesan, Assistant Professor (Sr.G)	S. M. Balaganesan 28/3/24
16	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.G)	R. R. Rubia Gandhi 28/3/24
17	Mrs. H. Vidhya, Assistant Professor (Sr.G)	H. Vidhya 28/3/24
18	Mrs. N. Divya, Assistant Professor (Sr.G)	N. Divya 28/3/24
19	Dr. M. Karthik, Assistant Professor (Sr.G)	M. Karthik 28/3/24
20	Mr. B. Marisekar, Assistant Professor (OG)	B. Marisekar
21	Mr. R. Santhoshkumar, Assistant Professor (OG)	R. Santhoshkumar

S. Allirani
28/3/2024

CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 18th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 16.11.2023 AT 11.00 AM THROUGH ONLINE PLATFORM

The following members attended the above meeting.

1. **Dr. S. Allirani**, Associate Professor & Head(i/c) – Chairperson, BoS – EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Professor (CAS), Department of EEE, Government College of Engineering, Bodinayakanur.
3. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITACHI Energy, Chennai.
4. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
5. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Puducherry Technological University, Puducherry.
6. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
7. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
8. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
9. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
10. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
11. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
12. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
13. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
14. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. R. Kasthuri**, Assistant Professor(Sl.G) / Mathematics, SREC
16. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

In the absence of **Mr. Prem Sunder Ravi**, Industrial Expert and Lead Engineer at M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai, the meeting was proceeded.

Prof Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 18th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1:

- It is resolved that Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2020.

ITEM No.2:

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2021 & onwards.

ITEM No.3:

- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Contact Hours / Week	L	T	P	C
1	20EE2E34	Nanotechnology for Energy Systems	3	3	0	0	3
2	20EE2E35	Electrical Estimation and Costing	3	3	0	0	3
3	20EE2E36	Sustainable Energy and Development Models	3	3	0	0	3

ITEM No.4:

- It is resolved that the syllabi for the following new Open Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Contact Hours / Week	L	T	P	C
1	20EE2E59	Electrical Safety Engineering	3	3	0	0	3
2	20EE2E60	Solid State Power Semiconductor Devices	3	3	0	0	3

ITEM No.5:

- It is resolved that the following one credit course will be handled by the below mentioned industry from the academic year 2023-2024 onwards under (Revised) Regulations 2020 for B.E. Electrical and Electronics Engineering programme.

S. No	Course Code	Course Title	Company
1	20EEI002	Energy Management and Audit	Ram Kalam - Centre for Energy Consultancy and Training, Coimbatore

ITEM No.6:

- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2023.

(A) For Credit Transfer under Professional Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OPE37	Smart Grid: Basics to Advanced Technologies	3	12
2.	OPE38	Introduction to Photonics	3	12
3.	OPE39	Fundamentals of Nano and Quantum Photonics	3	12

(B) For Credit Transfer under Open Electives

S. No	Course Code	Course Title	Credits	Course Duration
1.	OOE42	Introduction to Law on Electricity	2	8
2.	OOE43	Business Fundamentals for Entrepreneurs (Part 1: Internal Operation)	1	4

ITEM No.7:

- It is resolved that the Result Analysis for the Academic Year 2022 – 2023 (Semesters VIII / VI/ IV/II) are approved and passed.

Programme: UG – EEE**Batch: 2019-2023****Semester: VIII**

No of Students Appeared in all the subjects : 108

No of Students passed in all the subjects : 105

Overall Pass Percentage : **97.22%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	16EE2E06 - Smart Energy Delivery Systems	28	25	3	89.29
2	16EE2E19 - Grid Integration of Renewable Energy Sources	2	2	0	100
3	16EE219 - Power System Analysis	1	1	0	100
4	16EE220 - Power System Protection and Switchgear	1	1	0	100
5	16EE221- Electric Energy Generation Utilization and Conservation	1	1	0	100
6	16EE222 - Project and Finance Management	1	1	0	100
7	16EE2E05 - Power Quality	1	1	0	100
8	16EEI004 - Solar PV Installation and Commissioning	50	50	0	100

9	16EEI009 - Cyber Security Enabled IoT	71	71	0	100
10	16EEI006 - Industrial Process Automation (PLC and SCADA)	103	103	0	100
11	16EEI001 - Industrial IoT	35	35	0	100
12	16EE2E21 - Energy Management and Auditing	53	53	0	100
13	16EE266 - Mini Project II	1	1	0	100
14	16EE267 - Project Work	108	108	0	100

Programme: UG – EEE

Batch: 2020-2024

Semester: VI

No of Students Appeared in all the subjects : 121

No of Students passed in all the subjects : 99

Overall Pass Percentage : **81.82%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE211 - Electric Drives and Control	121	116	5	95.87
2	20EE212 - Power System Analysis	121	109	12	90.08
3	20EE213 - Power System Protection and Switchgear	121	113	8	93.39
4	20EE214 - Renewable Energy	121	114	7	94.21
5	20EE215 - Smart Grid and Data Analytics	121	110	11	90.91
6	20EE216 - Project and Finance Management	121	115	6	95.04
7	20EE2E01 - Electric Energy Generation Utilization and Conservation	66	65	1	98.48
8	20EE2E02 - Wind and Solar PV Installation and Commissioning	55	50	5	90.91
9	20AE201 - Indian Space Mission	7	7	0	100
10	20EEI005 - Industrial Automation PLC and SCADA	11	11	0	100
11	20EEI003 - Solar PV Installation and Commissioning	10	10	0	100
12	20EE235 - Positive Psychology	2	2	0	100
13	20EEI001 - Industrial IoT (using Fully Open Source)	11	11	0	100
14	20EEI002 - Energy Management and Audit	1	1	0	100
15	20BM206 - Biology for Engineers	38	38	0	100
16	20EE276 - Mini Project II	121	121	0	100
17	20EE273 - Power System Simulation Laboratory	121	121	0	100

18	20EE274 - Power Electronics and Drives Laboratory	121	118	3	97.52
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Programme: UG – EEE

Batch: 2021-2025

Semester: IV

No of Students Appeared in all the subjects : 98

No of Students passed in all the subjects : 66

Overall Pass Percentage : 67.35%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EE204 - DC Machines and Transformers	98	74	24	75.51
2	20EE205 - Control Systems	98	85	13	86.73
3	20EI253 - Model Based System Design	98	86	12	87.76
4	20MA218 - Probability, Statistics and Numerical Methods	98	84	14	85.71
5	20EE2E07 - Electrical and Industrial Safety	45	45	0	100
6	20CS243 - Data Structures and Algorithm Analysis	98	92	6	93.88
7	20EE235 - Positive Psychology	36	36	0	100
8	20CS201 - Disruptive Technologies	98	98	0	100
9	20BM2E31 - Healthcare Technology	14	11	3	78.57
10	20EC2E53 - Image Processing and Applications	7	6	1	85.71
11	20AE2E55 - Space: The Final Frontier	18	15	3	83.33
12	20CS2E65 - Cyber Security	8	8	0	100
13	20CE2E52 - Global Warming and Climate Change	5	5	0	100
14	20AE201 - Indian Space Mission	25	25	0	100
15	20NT2E02 - Nanotechnology in Environmental Remediation	2	2	0	100
16	20EI219 - Leadership Excellence and Development	14	14	0	100
17	20IT2E51 - Android Application Development	7	7	0	100
18	20CH2E54 - Environmental Science and Sustainability	12	11	1	91.67
19	20CH2E52 - Green Chemistry for Engineers	8	6	2	75
20	20EN2E02 - Art of Speaking	3	3	0	100
21	20EI2E12 - Programmable Logic Controller	4	4	0	100
22	20EC2E54 - Internet of Things	7	7	0	100

23	20EN2E01 - Life Skills and Personality Development	2	2	0	100
24	20IT203 - Web Design	2	2	0	100
25	20CS2E64 - Machine Learning	1	1	0	100
26	NOC22-CS96 - Introduction to Internet of Things	1	1	0	100
27	20CS292 - Data Structures and Algorithm Analysis Laboratory	98	98	0	100
28	20EE271 - DC Machines and Transformers Laboratory	98	98	0	100
29	20EI278 - Control Systems Laboratory	98	98	0	100
30	20EI273- Analog Integrated Circuits Laboratory	1	1	0	100
31	20EE275 - Mini Project – I	98	98	0	100

Programme: UG – EEE

Batch: 2022-2026

Semester: II

No of Students Appeared in all the subjects : 82

No of Students passed in all the subjects : 61

Overall Pass Percentage : **74.39%**

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EC201 - Electron Devices	84	72	12	85.71
2	20EE201 - Electric Circuits	84	80	4	95.24
3	20EI251 - Sensor and Instrumentation	84	79	5	94.05
4	20IT241 - Programming in Python	83	68	15	81.93
5	20MA204 - Integral and Vector Calculus	84	75	9	89.29
6	20HS202 - Technical Writing	40	39	1	97.5
7	20HS201 - Advanced Business English	17	17	0	100
8	20HS204 - Basic Japanese	11	11	0	100
9	20HS203 - Basic German	14	14	0	100
10	20BS270 - Basic Sciences Laboratory	83	83	0	100
11	20EE270 - Electric Circuits and Electron Devices Laboratory	84	84	0	100
12	20IT291 - Programming in Python Laboratory	84	84	0	100

Programme: PG – PED**Batch: 2022-2024****Semester: II**

No of Students Appeared in all the subjects : 1

No of Students passed in all the subjects : 1

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	22EE1206 - Analysis of DC Drives	1	1	0	100
2	22EE1207 - Analysis of AC Drives	1	1	0	100
3	22EE1208 - Embedded Control of Electric Drives	1	1	0	100
4	22EE1209 - Power Electronics for Renewable Energy Systems	1	1	0	100
5	22EE1E05 - Wind Energy Conversion System	1	1	0	100
6	22EE1E10 - Smart Grid	1	1	0	100
7	22EE1252 - Power Electronics and Drives Laboratory	1	1	0	100

ITEM No.8:

- It is resolved that the following candidates who have registered for additional credits during Nov/Dec 2023 examination under the Specialization/Minor courses category Verticals shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022.

Specialization Course Details	Course Code and Title	Register Number	Student Name	CGPA
Electric Vehicles	20EE2E25- Vehicle Dynamics and Engineering	2003137	Tamil M	8.63
		71812103001	Aanusri Ramesh	8.93
		71812103004	Abishek T	0
		71812103008	Anusha K	7.83
		71812103010	Archana A S	8.33
		71812103013	Ashwin S	7.84
		71812103019	Boomitha S	8.12
		71812103023	Elakkiya S R	8.86
	20EE2E26 - Energy Storage Systems	71812103025	Gokul Nathan M	8.26
		71812103036	Ilakkiya G	8.94
		71812103038	Jeevitha S	8.84
		71812103040	Jovarshini S	8.47
		71812103046	Ganeshkumar S	7.27
		71812103102	Kingsy Shekena D B	8.59
		71812103103	Kishoore M	6.90
		71812103105	Madhan A	7.70

		71812103114	Priyadharshini S	7.89
		71812103118	Sanjai Joyel R B	0
		71812103119	Sanjay Aravind K	0
		71812103132	Srihari S	0
		71812103134	Subramanian K	0
		71812103139	Thirumurugan P	8.22
		71812103141	Varshini V	8.41
		71812103146	Pranesh Sharaathi D	7.69
		71812103147	Surya V	7.23
		71812103148	Rajesh S	0

ITEM No.9:

- It is resolved that the B.E. – Electrical and Electronics Engineering programme for working professionals as communicated by AICTE through AICTE/P&AP/APH/2023-24/01 dated 24.08.2023 may be started with approval from Anna University, Chennai.

ITEM No.10:

- The following student was readmitted during the academic year 2023-2024 in fifth semester under regulation 2020 (revised). Since the candidate is readmitted under the same regulation, the credit balance is not required.

S. No	Register Number	Name	Readmitted Semester	Readmitted Regulation
1	2003003	Akila S	V	R 2020 (Revised)

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. Sujatha Balaraman, University Nominee:

- Recommended a comparison of topics between **20EE2E35 - Electrical Estimation and Costing** and the course **20EE208 - Transmission and Distribution of Electrical Energy** to identify and address any repetitions in content.
- Recommended to include the topic **IE Rules** in the course **20EE2E59 - Electrical Safety Engineering**.

Suggestions given by Dr. D. Madhan Mohan, Industry Expert:

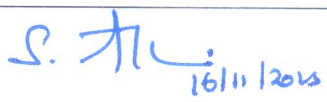
- Proposed the modification of the module title from "**Thermal Protection**" to "**Thermal Management**" in the course **20EE2E60 - Solid State Power Semiconductor Devices**.
- Recommended to include topic **basic design of heat sink** in the last module of the course **20EE2E60 - Solid State Power Semiconductor Devices**.

Suggestions given by Dr. L. Ashok Kumar, Academic Expert:

- Suggested to revamp the course **20EE2E34 - Nanotechnology for Energy Systems** with the module contents like **Basics of Nano technology, Nano Materials in Storage System.**
- In the course **20EE2E35 - Electrical Estimation and Costing** recommended to include the **EPLAN software** for the purpose of design and estimation.
- Also recommended to include some case studies related to Electrical Estimation and Costing.
- Proposed to include the topic **Sustainable Development Goals** in the course **20EE2E36 - Sustainable Energy and Development Models.**
- Suggested to include coursera online course as web references for the course **20EE2E36 - Sustainable Energy and Development Models.**

Suggestions given by S. Vinothkumar, Alumni Member:

- Proposed the idea of **splitting Module II**, which encompasses Sources of Sustainable Energy and Technology, into two distinct modules for the course **20EE2E36 - Sustainable Energy and Development Models.**
- Recommended the **division of Module III**, which covers Sustainable Energy Storage and Development Models, into two distinct modules for the course **20EE2E36 - Sustainable Energy and Development Models.**

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	 16/11/2023
2.	Dr. Sujatha Balaraman	University Nominee	Attended through Virtual Mode
3.	Dr. D. Madhan Mohan	Industrial Expert	Attended through Virtual Mode
4.	Mr. Premsunder Ravi	Industrial Expert	In Absentia
5.	Dr. L. Ashok Kumar	Academic Expert	Attended through Virtual Mode
6.	Dr. S. Jeevananthan	Subject Expert	Attended through Virtual Mode
7.	Mr. S. Vinoth Kumar	Alumni Member	Attended through Virtual Mode

8.	Dr. K. Uthayarani	Member	K. Uthayarani
9.	Dr. C. S. Ravichandran	Member	C. S. Ravichandran
10.	Dr. R. Shanmugasundaram	Member	R. Shanmugasundaram
11.	Dr. K. Sebastirani	Member	K. S. Sastirani
12.	Dr. K. Balamurugan	Member	K. Balamurugan
13.	Dr. P. Sebastian Vindro Jude	Member	P. Jude
14.	Mr. R. Mohan Kumar	Member	R. Mohan Kumar 16/11/23
15.	Dr. R. Krishnakumar	Member	R. Krishnakumar
16.	Dr. R. Kasthuri	Member	R. Kasthuri
17.	Mrs. E. Shanthini	Member	E. Shanthini

S. J. 16/11/2023

CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 18th Board of Studies (UG)

16.11.2023

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Associate Professor and Head(i/c)	S. Allirani 16/11/2023
2	Dr. C. S. Ravichandran, Professor	C. S. Ravichandran
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram
4	Dr. K. Sebasthirani, Associate Professor	K. Sebasthirani
5	Dr. K. Balamurugan, Associate Professor	K. Balamurugan
6	Mr. V. Gopu, Assistant Professor (Sl. Gr)	V. Gopu
7	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	P. Sebastian Vindro Jude
8	Dr. M. Chindamani, Assistant Professor (Sl. Gr)	M. Chindamani
9	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	R. Mohan Kumar
10	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	R. Krishnakumar
11	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	R. K. Ragavapriya
12	Mr. C. Praveenkumar, Assistant Professor (Sl. Gr)	C. Praveenkumar
13	Dr. M. Ezhilarasi, Assistant Professor (Sl.G)	M. Ezhilarasi
14	Mr. B. Sridhar, Assistant Professor (Sr.G)	B. Sridhar
15	Mr. S. M. Balaganesan, Assistant Professor (Sr.G)	S. M. Balaganesan
16	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.G)	R. R. Rubia Gandhi
17	Mrs. H. Vidhya, Assistant Professor (Sr.G)	H. Vidhya
18	Mrs. N. Divya, Assistant Professor (Sr.G)	N. Divya
19	Dr. M. Karthik, Assistant Professor (Sr.G)	M. Karthik
20	Mr. B. Marisekar, Assistant Professor (OG)	B. Marisekar
21	Mr. R. Santhoshkumar, Assistant Professor (OG)	R. Santhoshkumar

S. Allirani
16/11/2023

CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 18th BOARD OF STUDIES MEETING FOR THE PG POWER ELECTRONICS AND DRIVES PROGRAMME HELD ON 16.11.2023 AT 11.30 AM THROUGH ONLINE PLATFORM

The following members were attended the above meeting.

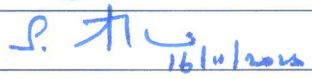
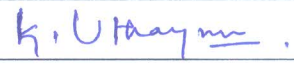
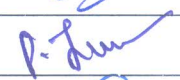
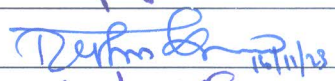
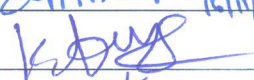
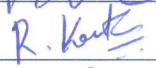
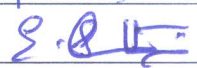
1. **Dr. S. Allirani**, Associate Professor & Head_(i/c) – Chairperson, BoS – EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Professor (CAS), Department of EEE, Government College of Engineering, Bodinayakanur.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITACHI Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Puducherry Technological University, Puducherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
9. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
10. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
13. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
14. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Professor Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members for the 18th Board of Studies meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.: 1

- It is resolved that the PG Regulations 2022 will be followed for the students admitted from academic year 2022 and onwards.

Suggestions/Comments from External Expert Members and University Nominee: **Nil**

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	
2.	Dr. Sujatha Balaraman	University Nominee	Attended through Virtual Mode
3.	Dr. D. Madhan Mohan	Industrial Expert	Attended through Virtual Mode
4.	Mr. Prem Sunder Ravi	Industrial Expert	Attended through Virtual Mode
5.	Dr. L. Ashok Kumar	Academic Expert	Attended through Virtual Mode
6.	Dr. S. Jeevananthan	Subject Expert	Attended through Virtual Mode
7.	Mr. S. Vinoth Kumar	Alumni Member	Attended through Virtual Mode
8.	Dr. K. Uthayarani	Member	
9.	Dr. C. S. Ravichandran	Member	
10.	Dr. R. Shanmugasundaram	Member	
11.	Dr. K. Sebastirani	Member	
12.	Dr. K. Balamurugan	Member	
13.	Dr. P. Sebastian Vindro Jude	Member	
14.	Mr. R. Mohan Kumar	Member	
15.	Dr. R. Krishnakumar	Member	
16.	Dr. R. Kasthuri	Member	
17.	Mrs. E. Shanthini	Member	


 16/11/2023
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 18th Board of Studies (PG)

16.11.2023

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Associate Professor and Head(i/c)	S. Allirani 16/11/2023
2	Dr. C. S. Ravichandran, Professor	C. S. Ravichandran
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram
4	Dr. K. Sebasthirani, Associate Professor	K. Sebasthirani
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19	Dr. M. Karthik, Assistant Professor (Sr.G)	M. Karthik
20	Mr. B. Marisekar, Assistant Professor (OG)	B. Marisekar
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S. Allirani
16/11/2023
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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MINUTES OF THE 17th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 21.04.2023 AT 01.30 PM IN IT SEMINAR HALL, SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE

The following members attended the above meeting.

1. **Dr. S. Allirani**, Associate Professor & Head(i/c), EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITACHI Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
9. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
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15. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Prof Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 17th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1:

- It is resolved that Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2020.

ITEM No.2:

- It is resolved that (Revised) Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2021 & onwards.

ITEM No.3:

- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Category	Contact Hours/ Week	L	T	P	C
1	20EE2E21	Substation Engineering and Automation	PE	3	3	0	0	3
2	20EE2E22	Intelligent control Techniques for Electric Vehicles	PE	3	3	0	0	3
3	20EE2E23	Grid integrating Techniques and Challenges	PE	3	3	0	0	3
4	20EE2E24	Smart System Automation	PE	3	3	0	0	3

ITEM No.4:

- It is resolved that the syllabi for the following new Open Elective courses under (Revised) Regulations 2020 be approved and passed.

S. No	Course Code	Course Title	Category	Contact Hours/ Week	L	T	P	C
1	20EE2E56	Testing of Electric Vehicles	OE	3	3	0	0	3
2	20EE2E57	Battery Pack Architecture for Electric Vehicles	OE	3	3	0	0	3
3	20EE2E58	Charging Infrastructure for Electric Vehicles	OE	3	3	0	0	3

ITEM No.5:

- It is resolved that the following new one credit courses will be included under (Revised) Regulations 2020 for B.E. Electrical and Electronics Engineering programme.

S. No	Course Code	Course Title	Offering Industry	Eligible Departments
1	20EEI010	Electric Mobility – Idea to Innovation	M/s. Mahindra & Mahindra, Chennai	EEE, Mech, CSE, M.Tech-CSE
2	20EEI011	Electric Vehicle Fundamentals	M/s. Devise Electronics Ltd, Pune	EEE, ECE, EIE, MECH, CSE, IT, AERO, AIDS, RA, M.Tech – CSE

ITEM No.6:

- It is resolved that the Result Analysis for the Academic Year 2022 – 2023 (Semesters VII / V/ III) are approved and passed.

Programme: UG – EEE**Batch : 2019-2023****Semester : VII**

No of Students Appeared in all the subjects : 106

No of Students passed in all the subjects : 87

Overall Pass Percentage : 82.08%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass%
1	16EE219 - Power System Analysis	107	107	0	100
2	16EE220 - Power System Protection and Switchgear	107	107	0	100
3	16EE221 - Electric Energy Generation, Utilization and Conservation	107	99	0	92.52
4	16EE222 - Project and Finance Management	107	107	0	100
5	16EE264 - Power System Simulation Laboratory	108	108	0	100
6	16EE2E05 - Power Quality	104	89	0	85.58
7	NOC22-EE50 - Sensors and Actuators	3	3	0	100

Programme: UG – EEE**Batch : 2020-2024****Semester : V**

No of Students Appeared in all the subjects : 124

No of Students passed in all the subjects : 108

Overall Pass Percentage : 87.01%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass%
1	20EE272 - Induction and Synchronous Machines Laboratory	124	121	3	97.58
2	20EI275 - Microcontrollers and Embedded System Laboratory	125	122	3	97.6
3	20HS207 - Universal Human Values	123	123	0	100
4	20CS242 - Artificial Intelligence	125	115	10	92
5	20EE206 - Induction and Synchronous Machines	125	115	10	92
6	20EE207 - Power Electronics	125	117	8	93.6
7	20EE208 - Transmission and Distribution of Electrical Energy	125	114	11	91.2
8	20EE210 - Total Quality Management	125	118	7	94.4
9	20EE2E07 - Electrical and Industrial Safety Engineering	125	120	5	96
10	20EI209 - Microcontrollers and Embedded Systems	125	116	9	92.8
11	20NT2E02 - Nanotechnology in Environmental Remediation	16	15	1	93.75
12	20EEI002 - Energy Management and Audit	63	63	0	100
13	20CH2E54 - Environmental Science and Sustainability	9	9	0	100
14	20CE2E54 - Disaster Management	12	11	1	91.67
15	20MA2E01 - Mathematics for Data Science	4	4	0	100
16	20CS2E63 - Java Programming	7	7	0	100
17	20ME2E54 - Project Management	7	7	0	100
18	20CH2E52 - Green Chemistry for Engineers	19	18	1	94.74
19	20AE2E54 - Automotive Aerodynamics	5	4	1	80
20	20EC2E52 - MEMS and NEMS	8	7	1	87.5
21	20MC208 - Soft Skills	37	37	0	100

22	20EN2E04 - Gender Perspective in Team Building and Leadership	8	8	0	100
23	20EEI003 - Solar PV Installation and Commissioning	62	62	0	100
24	20EN2E03 - Generic Skills for Employability	7	7	0	100
25	20EE235 - Positive Psychology	103	103	0	100
26	20EI2E12 - Programmable Logic Controller	8	6	2	75
27	20RA2E51 - Automation in Industry 4.0	11	11	0	100
28	20MA2E04 - Statistics for Big Data Analytics	2	0	2	0
29	20MC215 - Phorartz Club	1	1	0	100
30	20IT2E51 - Android Application Development	2	2	0	100
31	20IT2I01 - Design Thinking	38	38	0	100
32	20MC212 - Tamil Mandram	7	7	0	100
33	20MC204 - National Service Scheme	2	2	0	100
34	20M201- Sports and Games	1	1	0	100

Programme: UG – EEE

Batch : 2021-2025

Semester : III

No of Students Appeared in all the subjects : 96

No of Students passed in all the subjects : 64

Overall Pass Percentage : 66.67%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass%
1	20EC204 - Digital System Design	97	87	10	89.69
2	20EC271 - Digital System Design Laboratory	98	98	0	100
3	20MA211 - Transforms and Partial Differential Equations	97	74	23	76.29
4	20EI273 - Analog Integrated Circuits Laboratory	97	97	0	100

5	20EE202 - Network Analysis and Synthesis	98	91	7	92.86
6	20EE203 - Electromagnetics	98	79	19	80.61
7	20EE217 - Electric Vehicle Technology	98	94	4	95.92
8	20IT2I01 - Design Thinking	83	83	0	100
9	20EI2E14 - Testing and Calibration of Equipment's	14	10	4	71.43
10	20EC2E51 - Consumer Electronics	12	12	0	100
11	20EI206 - Analog Integrated Circuits	98	85	13	86.73
12	20RA2E53-Embedded Systems For Robotic Applications	6	6	0	100
13	20PH2E02 - Non-Conventional Energy Resources	23	23	0	100
14	20EC2E54 - Internet of Things	11	10	1	90.91
15	20MC201 - Sports and Games	10	10	0	100
16	20CE2E51 - Waste Management	6	5	1	83.33
17	20AD2E51- Python Frameworks for Machine Learning	5	5	0	100
18	20AE2E55 - Space: The Final Frontier	5	5	0	100
19	20PH2E03 - Solar Technology	6	5	1	83.33
20	20CS2E61 - Python for Data Science	4	4	0	100
21	20EN2E01 - Life Skill and Personality Development	2	2	0	100
22	20EN2E02 - Art of Speaking	4	4	0	100

Programme: PG - PED

Batch : 2021-2023

Semester : III

No of Students Appeared in all the subjects : 1

No of Students passed in all the subjects : 1

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass%
1	18EE1E05 – Flexible AC Transmission Systems	1	1	0	100

2	18EE1E10 – High Voltage Direct Current Transmission	1	1	0	100
3	18EE1E20 – Special Electrical Machines And Drives	1	1	0	100
4	18EE1053 – Dissertation 1 / Industrial Project 1	1	1	0	100

Programme: PG – PED

Batch : 2022-2024

Semester : I

No of Students Appeared in all the subjects : 1

No of Students passed in all the subjects : 1

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass%
1	20MA1001 - Advanced Applied Mathematics	1	1	0	100
2	20EE1101 - Analysis of Electrical Machines	1	1	0	100
3	20EE1102 - Power Semiconductor Devices	1	1	0	100
4	20EE1103 - Analysis of Power Converters	1	1	0	100
5	20EE1104 - Analysis of Inverters	1	1	0	100
6	20EE1105 - System Theory	1	1	0	100
7	20ME1A004 - Research Methodology and IPR	1	1	0	100
8	20EE1151 - Power Converters Laboratory	1	1	0	100

ITEM No.7:

- It is resolved that One Credit Industry oriented courses to be included for the completion of 2 credits to be earned under Clause 12 of (Revised) Regulation 2020 for Industrial Training / Internship under the Employability Enhancement Category.

ITEM No.8:

- It is resolved that the following Tamil Courses and its syllabi as recommended by Anna University, Chennai be approved to be included as the Mandatory courses.
 - Heritage of Tamils
 - Tamils and Technology

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

The board members were highly appreciated the efforts taken for the preparation of the contents of curriculum with reference to the emerging areas and the scope for multidisciplinary approach.

The chairperson has proposed three PEOs as per the NBA guidelines and it was approved by the board members.

Suggestions given by Dr. Sujatha Balaraman, University Nominee:

- Suggested to include the topics like converters for grid integration, power grid in India/ Grid structure in India in the course 20EE2E23 - Grid Integrating Techniques and Challenges.

Suggestions given by Mr. Prem Sunder Ravi, Industry Expert:

- Recommended to include one module related to grid integration of solar PV system in the course 20EE2E23 - Grid Integrating Techniques and Challenges.
- In the course 20EE2E58 - Charging Infrastructure for Electric Vehicles, it is suggested to remove grid technology in the third module and requested to include various communication techniques.

Suggestions given by Dr. D. Madhan Mohan, Industry Expert:

- Proposed to include the topic IEC 61850 standards in the course 20EE2E21 - Substation Engineering and Automation.
- Suggested to include the following topics Grid standards, Grid Code and Compliance in the course 20EE2E23 - Grid Integrating Techniques and Challenges.
- Suggested to include the topics like Testing of all parts of EV, Communication, half load and full load testing, routine test, vibration test in the course 20EE2E56 - Testing of Electric Vehicles.

Suggestions given by Dr. S. Jeevananthan, Subject Expert:

- In the Course 20EE2E22 - Intelligent control Techniques for Electric Vehicles, the course title and content needs to be changed.

- In open elective, the course contents of 20EE2E56 - Testing of Electric Vehicles must be revamped as per the title.
- Suggested to add some more communication protocols in the course 20EE2E58 - Charging Infrastructure for Electric Vehicles.

Suggestions given by Dr. L. Ashok Kumar, Academic Expert:

- Suggested to include the text books with recent editions for the professional and open elective courses.
- The title shall be changed with respect to the content for the course 20EE2E24 - Smart System Automation.

Suggestions given by S. Vinothkumar, Alumni Member:

- Suggested to include the topic key line / single line diagram in the course 20EE2E21 - Substation Engineering and Automation.
- Recommended to include the following topics Substation automation, feeder automation, remote metering and monitoring in the course 20EE2E21 - Substation Engineering and Automation.

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	S. Allirani 21/4/2023
2.	Dr. Sujatha Balaraman	University Nominee	Dr. Sujatha Balaraman 21/4/2023
3.	Dr. D. Madhan Mohan	Industrial Expert	Dr. D. Madhan Mohan 21/4/23
4.	Mr. Premsunder Ravi	Industrial Expert	Mr. Premsunder Ravi
5.	Dr. L. Ashok Kumar	Academic Expert	Dr. L. Ashok Kumar
6.	Dr. S. Jeevananthan	Subject Expert	Dr. S. Jeevananthan

7.	Mr. S. Vinoth Kumar	Alumni Member	<i>Vinoth S</i>
8.	Dr. K. Uthayarani	Member	<i>K. Uthayarani</i>
9.	Dr. C. S. Ravichandran	Member	<i>C. S. Ravichandran</i>
10.	Dr. R. Shanmugasundaram	Member	<i>R. Shanmugasundaram</i>
11.	Dr. K. Sebastirani	Member	<i>K. S. Law</i>
12.	Dr. K. Balamurugan	Member	<i>K. B. Law</i>
13.	Dr. P. Sebastian Vindro Jude	Member	<i>P. Jude</i>
14.	Mr. R. Mohan Kumar	Member	<i>R. Mohan Kumar</i>
15.	Dr. R. Krishnakumar	Member	<i>R. Krishnakumar</i>
16.	Dr. R. Kasthuri	Member	<i>R. Kasthuri</i>
17.	Mrs. E. Shanthini	Member	<i>E. Shanthini</i>


 21/04/2023
CHAIRPERSON
BOARD OF STUDIES
 Department of Electrical
 and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 17th Board of Studies (UG)

21.04.2023

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Associate Professor & Head (i/c)	S. Allirani 21/04/2023
2	Dr. C. S. Ravichandran, Professor	C. S. Ravichandran
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram
4	Dr. K. Sebasthirani, Associate Professor	K. Sebasthirani
5	Dr. K. Balamurugan, Associate Professor	K. Balamurugan
6	Mr. V. Gopu, Assistant Professor (Sl. Gr)	V. Gopu
7	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	P. Sebastian Vindro Jude
8	Mrs. M. Chindamani, Assistant Professor (Sl. Gr)	M. Chindamani
9	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	R. Mohan Kumar
10	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	R. Krishnakumar
11	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	R. K. Ragavapriya
12	Mr. C. Praveenkumar, Assistant Professor (Sr. Gr)	C. Praveenkumar
13	Mr. B. Sridhar, Assistant Professor (Sr. G)	B. Sridhar
14	Dr. M. Ezhilarasi, Assistant Professor (Sr. G)	M. Ezhilarasi
15	Mr. S. M. Balaganesan, Assistant Professor (Sr. G)	S. M. Balaganesan
16	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr. G)	R. R. Rubia Gandhi
17	Mrs. H. Vidhya, Assistant Professor (Sr. G)	H. Vidhya
18	Mrs. N. Divya, Assistant Professor (Sr. G)	N. Divya
19	Dr. M. Karthik, Assistant Professor (OG)	M. Karthik
20	Mr. B. Marisekar, Assistant Professor (OG)	B. Marisekar
21	Mr. R. Santhoshkumar, Assistant Professor (OG)	R. Santhoshkumar


 21/04/2023
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 17th BOARD OF STUDIES MEETING FOR THE PG POWER ELECTRONICS AND DRIVES PROGRAMME HELD ON 21.04.2023 AT 02.00 PM IN IT SEMINAR HALL, SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE

The following members were attended the above meeting.

1. **Dr. S. Allirani**, Associate Professor & Head(i/c), EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITACHI Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
9. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
10. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. K. Balamurugan**, Associate Professor / EEE, SREC
13. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
14. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
16. **Dr. R. Kasthuri**, Assistant Professor(Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Professor Dr. S. Allirani, Chairperson, Board of Studies, chaired the meeting and welcomed all the members for the 17th Board of Studies meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.: 1

- It is resolved that the PG Regulations 2022 will be followed for the students admitted from academic year 2022-2023 onwards.

Suggestions/Comments from External Expert Members and University Nominee: Nil

S. No	Name of the Members	Designation	Signature
1.	Dr. S. Allirani	Chairperson	S. Allirani 21/04/2023
2.	Dr. Sujatha Balaraman	University Nominee	Sujatha Balaraman 21/4/2023
3.	Dr. D. Madhan Mohan	Industrial Expert	D. Madhan Mohan 21/4/23
4.	Mr. Premsunder Ravi	Industrial Expert	Premsunder Ravi
5.	Dr. L. Ashok Kumar	Academic Expert	L. Ashok Kumar
6.	Dr. S. Jeevananthan	Subject Expert	S. Jeevananthan
7.	Mr. S. Vinoth Kumar	Alumni Member	Vinoth Kumar
8.	Dr. K. Uthayarani	Member	K. Uthayarani
9.	Dr. C. S. Ravichandran	Member	C. S. Ravichandran
10.	Dr. R. Shanmugasundram	Member	R. Shanmugasundram
11.	Dr. K. Sebastirani	Member	K. Sebastirani
12.	Dr. K. Balamurugan	Member	K. Balamurugan
13.	Dr. P. Sebastian Vindro Jude	Member	P. Sebastian Vindro Jude
14.	Mr. R. Mohan Kumar	Member	R. Mohan Kumar
15.	Dr. R. Krishnakumar	Member	R. Krishnakumar
16.	Dr. R. Kasthuri	Member	R. Kasthuri
17.	Mrs. E. Shanthini	Member	E. Shanthini

S. Allirani
21/04/2023
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 17th Board of Studies (PG)

21.04.2023

S. No.	Name of The Faculty	Signature
1	Dr. S. Allirani, Associate Professor and Head(i/c)	S. Allirani 21/04/2023
2	Dr. C. S. Ravichandran, Professor	C. S. Ravichandran
3	Dr. R. Shanmugasundram, Professor	R. Shanmugasundram
4	Dr. K. Sebasthirani, Associate Professor	K. Sebasthirani
5	Dr. K. Balamurugan, Associate Professor	K. Balamurugan
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9	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	R. Mohan Kumar
10	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	R. Krishnakumar
11	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	R. K. Ragavapriya
12	Mr. C. Praveenkumar, Assistant Professor (Sr. Gr)	C. Praveenkumar
13	Mr. B. Sridhar, Assistant Professor (Sr.G)	B. Sridhar
14	Dr. M. Ezhilarasi, Assistant Professor (Sr.G)	M. Ezhilarasi
15	Mr. S. M. Balaganesan, Assistant Professor (Sr.G)	S. M. Balaganesan
16	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.G)	R. R. Rubia Gandhi
17	Mrs. H. Vidhya, Assistant Professor (Sr.G)	H. Vidhya
18	Mrs. N. Divya, Assistant Professor (Sr.G)	N. Divya
19	Dr. M. Karthik, Assistant Professor (OG)	M. Karthik
20	Mr. B. Marisekar, Assistant Professor (OG)	B. Marisekar
21	Mr. R. Santhoshkumar, Assistant Professor (OG)	R. Santhoshkumar


 21/04/2023
CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
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MINUTES OF THE 16th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 08.12.2022 AT 10.30 AM THROUGH ONLINE WEBEX PLATFORM

The following members attended the above meeting.

1. **Dr. C. Kathirvel**, Professor & Head, EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Preamsunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITECH Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
9. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
10. **Dr. S. Allirani**, Associate Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
13. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
14. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
16. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Prof Dr. C. Kathirvel, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 16th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1

- It is resolved that Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E. / B.Tech. programmes for students admitted in the Academic year 2020.

ITEM No.2

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2021 & onwards.

ITEM No.3

- It is resolved that the syllabi for the following new Professional Elective courses under Regulations 2020 be approved and passed.

S. No	Course Code	Course Title
1	20EE2E10	Power Electronics Applications in Power Systems
2	20EE2E11	Advanced Control Theory
3	20EE2E12	Illumination Engineering
4	20EE2E13	Electronic Product Design
5	20EE2E14	HVDC and FACTS Systems
6	20EE2E15	Robotics and Automation
7	20EE2E16	Digital Control Systems
8	20EE2E17	Advanced Digital Signal Processing
9	20EE2E18	Advanced Power Electronic Converters
10	20EE2E19	Soft-Computing Techniques and Applications
11	20EE2E20	Electromagnetic Compatibility and Electromagnetic Interference

ITEM No.4

- It is resolved that the following new one credit courses will be included under Regulations 2020 for B.E. Electrical and Electronics Engineering programme.

S. No	Course Code	Course Title	Company
1	20EEI009	Industrial Digitalization	Dr. Somasundaram Balasubramaniam, Head Digital Transformation, M/s ELGI Equipments Limited, Coimbatore

ITEM No.5

- It is resolved that the following NPTEL courses are approved for credit transfer during December 2022.

(A) For Credit Transfer under PROFESSIONAL ELECTIVES

S. No.	Course Code	Platform	Course Title	Course Duration in weeks	Equivalent Credits
1.	OPE33	NPTEL	Electrical Distribution System Analysis	8	2
2.	OPE34	NPTEL	Enclosure Design of Electronics Equipment	12	3
3.	OPE35	NPTEL	Phase Locked Loop	12	3
4.	OPE36	NPTEL	Advances in UHV Transmission and Distribution	8	2

(B) For Credit Transfer under OPEN ELECTIVES

S. No.	Course Code	Platform	Course Title	Course Duration in weeks	Equivalent Credits
1.	OOE35	NPTEL	Hardware Modeling using Verilog	8	2
2.	OOE36	NPTEL	Software Testing	12	3
3.	OOE37	NPTEL	Real-Time Systems	12	3
4.	OOE38	NPTEL	Functional and Conceptual Design	12	3
5.	OOE39	NPTEL	Design, Technology and Innovation	8	2
6.	OOE40	NPTEL	Data Analysis and Decision Making III	12	3
7.	OOE41	NPTEL	Knowledge Management	8	2

ITEM No.6

- It is resolved that the Result Analysis for the Academic Year 2021 – 2022 are approved and passed.

Batch: 2018**Semester: VIII**

No of Students Appeared in all the subjects : 127

No of Students passed in all the subjects : 127

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	16EE267 - Project Work	127	127	0	100
2	16EEI006 - Industrial Process Automation (PLC, SCADA)	45	45	0	100
3	16EEI001 - Industrial IoT	81	81	0	100

4	16EEI005 - Power Semiconductors - Characteristics, Driving And Applications	20	20	0	100
5	16EE2E02 - Special Electrical Machines	31	31	0	100
6	16EE2E21 - Energy Management and Auditing	47	47	0	100
7	16EEI007 - Electromagnetics and Applications	30	30	0	100
8	16EE2E06 - Smart Energy Delivery Systems	18	18	0	100
9	116EEI008 - Hybrid Electric Vehicle	51	51	0	100
10	16EEI004 - Solar PV Installation and Commissioning	10	10	0	100
11	16EEI002 - Energy Management and Audit	12	12	0	100

Batch: 2019

Semester: VI

No of Students Appeared in all the subjects : 107

No of Students passed in all the subjects : 97

Overall Pass Percentage : 90.65%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	16EE216 - Power Electronics and Drives	107	107	0	100
2	16EC213 - Embedded Systems and IoT	107	106	1	99.07
3	16EE217 - Renewable Energy and Smart Grid	107	107	0	100
4	16EE218 - Robotics and Automation	107	106	1	99.07
5	16EE262 - Microcontrollers and Embedded Laboratory	107	107	0	100
6	16ee263 - Power Electronics and Drives Laboratory	107	107	0	100
7	16EE266 - Mini Project-II	107	107	0	100
8	16PT201 - General Aptitude	107	101	6	94.39
9	16CH2E01 - Energy Storing Devices and Fuel Cells	8	7	1	87.5
10	16EE2E16 - Quality Management	35	35	0	100
11	16EN2E01 - Effective Technical Communication	13	13	0	100
12	16EE2E21 - Energy Management and Auditing	38	38	0	100
13	16ME2E37 - Intellectual Property Rights for Engineers	21	21	0	100
14	16EE2E03 - Wind and Solar Energy	72	72	0	100
15	16EN2E02 - Professional English	20	20	0	100
16	16CE2E53 - Waste Management	9	9	0	100

17	16EI2E28 - Programmable Logic Controller	6	6	0	100
18	16CS2E52 - Java Programming	5	5	0	100
19	16AE2E28 - Vehicle Aerodynamics	4	3	1	75
20	16EC2E47 - Fundamentals of Mobile Communication	5	5	0	100
21	16MA2E09 - Mathematics for Data Science	1	1	0	100
22	16EE2E02 - Special Electrical Machines	43	42	1	97.67
23	16CE2E51 - Global Warming and Climate Change	4	4	0	100
24	NOC21_CS20 - Introduction to Industry 4.0 and Industrial Internet of Things	1	1	0	100

Batch: 2020

Semester: IV

No of Students Appeared in all the subjects : 127

No of Students passed in all the subjects : 91

Overall Pass Percentage : 71.65%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20MA218 - Probability, Statistics and Numerical Methods	127	112	15	88.19
2	20EE204 - DC Machines and Transformers	127	111	16	87.4
3	20EE205 - Control Systems	127	109	18	85.83
4	20EI253 - Model Based System Design	127	123	4	96.85
5	20EE271 - DC Machines and Transformers Laboratory	127	127	0	100
6	20EI278 - Control Systems Laboratory	127	127	0	100
7	20CS201 - Disruptive Technologies	127	127	0	100
8	20CS243 - Data Structures and Algorithm Analysis	127	107	20	84.25
9	20CS292 - Data Structures and Algorithm Analysis Laboratory	127	125	2	98.43
10	20EE275 - Mini Project – I	127	127	0	100
11	20IT2E51 - Android Application Development	28	14	14	50
12	20CE2E54 - Disaster Management	10	10	0	100
13	20BM2E31 - Healthcare Technology	4	4	0	100
14	20CH2E54 - Environmental Science and Sustainability	3	3	0	100
15	20EC2E54 - Internet of Things	6	6	0	100
16	20PH2E02 - Non Conventional Energy Resources	19	18	1	94.74
17	20NT2E02 - Nanotechnology in Environmental Remediation	13	13	0	100

18	20PH2E03 - Solar Technology	6	6	0	100
19	20CE2E55 - Environmental Management in Industry	13	13	0	100
20	20ME2E01 - Intellectual Property Rights For Engineers	2	2	0	100
21	20CS2E63 - Java Programming	12	12	0	100
22	20RA2E53 - Embedded Systems for Robotic Applications	3	3	0	100
23	20CS2E65 - Cyber Security	7	6	1	85.71
24	20AE2E53 - Vehicle Aerodynamics	1	1	0	100

Batch: 2018

Semester: VII

No of Students Appeared in all the subjects : 126

No of Students passed in all the subjects : 126

Overall Pass Percentage : 100%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	16EE219 - Power System Analysis	127	127	0	100
2	16EE220 - Power System Protection and Switchgear	127	127	0	100
3	16EE221 - Electric Energy Generation, Utilization and Conservation	127	127	0	100
4	16EE222 - Project and Finance Management	127	127	0	100
5	16EE264 - Power System Simulation Laboratory	126	126	0	100
6	16EE2E05 - Power Quality	127	127	0	100
7	16NT2E02 - Fundamentals and Applications of Nanoscience and Technology	4	4	0	100
8	16EE2E03 - Wind and Solar Energy Systems	5	5	0	100

Batch: 2019

Semester: V

No of Students Appeared in all the subjects : 108

No of Students passed in all the subjects : 102

Overall Pass Percentage : 94.44%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	16EE213 - Induction and Synchronous Machines	108	108	0	100
2	16EE214 - Control System Theory	108	108	0	100
3	16EE215 - Organizational Behavior and Ethics	108	103	5	95.37
4	16EC210 - Microcontroller and RISC Processors	108	108	0	100

5	16EE259 - Digital Electronics Laboratory	108	108	0	100
6	16EE260 - Induction and Synchronous Machines Laboratory	108	108	0	100
7	16EE261 - Control Systems Laboratory	108	108	0	100
8	16EE2E14 - Electrical and Industrial Safety	108	108	0	100
9	16EI2E38 - Automation and Machine Vision System	32	32	0	100
10	16ME2E36 - Automotive Electronics	12	12	0	100
11	16CE2E53 - Waste Management	19	19	0	100
12	16CS2E56 - Cyber Security	2	2	0	100
13	16CE2E52 - Disaster Management	13	13	0	100
14	16BM2E31 - Healthcare Technology	5	5	0	100
15	16EN2E02 - Professional English	7	7	0	100
16	16AE2E18 - Airport Management	9	9	0	100
17	16IT2E48 - Introduction to Data Science	1	1	0	100
18	16EN2E01 - Effective Technical Communication	2	2	0	100
19	16IT2E43 - Android Application Development	3	3	0	100
20	16AE2E28 - Vehicle Aerodynamics	1	1	0	100
21	16CS2E55 - Machine Learning	2	2	0	100

Batch: 2020

Semester: III

No of Students Appeared in all the subjects : 124
 No of Students passed in all the subjects : 122
 Overall Pass Percentage : 98.39%

S. No.	Name of the Subject	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1	20EC204 - Digital System Design	128	128	0	100
2	20EC271 - Digital System Design Laboratory	128	128	0	100
3	20MA211 - Transforms And Partial Differential Equations	124	124	0	100
4	20EI273 - Analog Integrated Circuits Laboratory	128	128	0	100
5	20EE202 - Network Analysis and Synthesis	128	128	0	100
6	20EE203 - Electromagnetics	128	128	0	100
7	20EE217 - Electric Vehicle Technology	128	128	0	100
8	20IT2101 - Design Thinking	78	78	0	100
9	20MC208 - Soft Skills Leadership and Workplace Etiquette	77	77	0	100
10	20EC2E51 - Consumer Electronics	25	25	0	100

11	20EI206 - Analog Integrated Circuits	128	126	2	98.44
12	20BM206 - Biology for Engineers	74	74	0	100
13	20EE235 - Positive Psychology	12	12	0	100
14	20EC2E54 - Internet of Things	15	15	0	100
15	20IT2E51 - Android Application Development	15	15	0	100
16	20CE2E51 - Waste Management	4	4	0	100
17	20CE2E54 - Disaster Management	5	5	0	100
18	20CS2E64 - Machine Learning	7	7	0	100
19	20IT2E54 - Introduction to Data Science	4	4	0	100
20	20CS2E61- Python for Data Science	6	6	0	100
21	20CE207 - Cultural Implication on Building Design	2	2	0	100
22	20CH2E54 - Environmental Science And Sustainability	3	3	0	100
23	20PH2E03 - Solar Technology	3	3	0	100
24	20ME2E01 - Intellectual Property Rights for Engineers	41	40	1	97.56

ITEM No.7

- It is resolved that the Degree awarded details for the Academic Year 2021 – 2022 are approved and passed.

Batch	Total Number of Students	Total Number of Grandaunts	No of Students - First Class with Distinction	No of Students with First Class	No of Students with Second Class	% of Grandaunts
2018 - 2022	127	126	24	101	1	99.21%

ITEM No.8

- It is resolved that the Revised Uniform Evaluation Method of Students based on Relative Grading, as per the communications received from Anna University, Chennai be approved and passed.

ITEM No.9

- Readmitted student details and the Credit balance for the same.

S. No	Register Number	Name of the Student	Admitted in the Batch	Credit Balance
1	2003137	Tamil M	2021-2025 (during the 3 rd Semester)	He is admitted in the same regulation R2020, hence the credit balance is not required.

ITEM No.10

- It is resolved that Award of UG (Hons) with Specialization, UG with Minor and UG (Hons) be implemented as approved by the Academic Council of Anna University, Chennai for the UG students who have joined from the Academic Year 2021 – 2022 for all B.E./B.Tech. programmes.
1. B.E. / B.Tech. (Honours) in the same discipline
 2. B.E. / B.Tech. (Minor) in other specialization and
 3. B.E. / B.Tech. (Honours)
- **Norms for B.E. / B.Tech. (Hons) specialization in the same discipline, B.E. / B.Tech. (Hons) and B.E. / B.Tech. (Minor) in other specialization**
- i) **B.E. / B.Tech. (Hons) specialization in the same discipline**
- a) The student should have earned additionally a minimum of 20 credits from a vertical of the same programme
 - b) Should have passed all the courses in the first attempt
 - c) Should have earned a minimum CGPA of 7.50.
- ii) **B.E. / B.Tech. (Hons)**
- a) The student should have earned additional courses (minimum of 20 credits) from more than one vertical of the same programme.
 - b) Should have passed all the courses in the first attempt
 - c) Should have earned a minimum CGPA of 7.50.
- iii) **B.E. / B.Tech. (Minor) in other specialization**
- a) The student should have earned additionally a minimum of 20 credits in any one of the verticals of other B.E./B.Tech programmes.
- Students can earn maximum of 6 credits in online mode (SWAYAM platform) out of these 20 credits as approved by Chairperson of Board of Studies / Academic Council.
 - B.E. / B.Tech. (Hons) specialization in the same discipline, B.E. / B.Tech. (Hons) and B.E. / B.Tech. (Minor) in other specialization degree will be optional for students.
 - Students will be permitted to register Specialization / Minor courses from 4th / 5th semester onwards. The eligibility criteria will be the (N-1)th semester performance.

CLASSIFICATION OF DEGREE for students who opted for Specialization / Minors

1. First Class with Distinction					
Degree	Duration of the Programme	Duration Permitted	Additional credits above the requirement of curriculum	CGPA	Pass in
B.E./B.Tech. Regular	4 years	5 years	-	8.50	First Attempt
B.E./B.Tech. Lateral Entry	3 years	4 years	-	8.50	First Attempt
B.E. / B.Tech. (Hons) specialization in the same discipline	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the same programme	8.50	First Attempt
B.E. / B.Tech. (Hons)	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from more than one verticals of the same programme	8.50	First Attempt
B.E. / B.Tech. (Minor) in other specialization	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the other programme	8.50	First Attempt
2. First Class					
B.E./B.Tech. Regular	4 years	5 years	-	6.50	-
B.E./B.Tech. Lateral Entry	3 years	4 years	-	6.50	-
B.E. / B.Tech. (Hons) specialization in the same discipline	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the same programme	7.50	First Attempt
B.E. / B.Tech. (Hons)	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from more than one	7.50	First Attempt

	Regular respectively)	Regular respectively)	verticals of the same programme		
B.E. / B.Tech. (Minor) in other specialization	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the other programme	6.50	-
3. Second Class					
B.E./B.Tech. Regular / lateral entry and B.E./B.Tech. minor in other specialization degree students (not covered in first class with distinction and first class classification of degree) who qualify for the award of degree shall be declared to have passed examination in second class.					
4. Others					
Students earned additional 20 credits but does not satisfy the conditions mentioned in first class with distinction and first class classification of degree shall not be awarded B.E. / B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case, if the student becomes eligible for first class, while computing CGPA without taking into account the additional courses studied, the student shall be awarded B.E. / B.Tech. in First Class only.					

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

Suggestions given by Dr. Sujatha Balaraman, University Nominee:

- The course **20EE2E17 - Digital Signal Processing for Electrical Engineers** course title needs to be changed as **20EE2E17 - Advanced Digital Signal Processing**
- In the following courses HVAC and HVDC Transmission Systems and Flexible AC Transmission Systems, the contents are similar. So the board member suggested to combine the syllabus and have a course called **20EE2E14 - HVDC and FACTS systems**.

Suggestions given by Mr. Premsunder Ravi, Industry Expert:

- Suggested to rename the title for the one credit course Digital Transformation as **Industrial Digitalization**.
- The syllabus content for the one credit course Digital Transformation was vast. Suggested to revamp contents.

Suggestions given by Dr. D. Madhan Mohan, Industry Expert:

- Suggested to have a pre-requisite for the professional elective course Illumination Engineering if possible.

- The chairperson explained that as per the regulation there were no pre-requisites for the elective courses.
- Recommended to change the title for the course Microcontroller based System Design for Electrical Engineers as **20EE2E13 - Electronic Product Design**.

Suggestions given by Dr. S. Jeevananthan, Subject Expert:

- Proposed to include the courses like **Digital Protection, Machine Learning and Artificial intelligence (AI)** in future.
- Requested to include the course in the field of **Electric Vehicle** for benefit of non-specialization students.
- Suggested to have a different verticals in specialization like **Sustainable Technology, Smart Grid, etc.** in future.

Suggestions given by Dr. L. Ashok Kumar, Academic Expert:

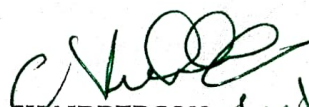
- Proposed to include the course **Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI)** as a professional elective course.
- Suggested to include the topics like **different types of filters, MATLAB tool boxes and standards** in the course Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI).

Suggestions given by S. Vinothkumar, Alumni Member:

- The board suggested to introduce one credit courses in the following title
 - Digital Measurements
 - Measurements and Power Quality
- The chairperson explained that the above mentioned courses were already introduced in the core course **20EI251 - Sensors and Instrumentation**.
 - The board suggested to introduce the value added course on **Advance Software's for Power System Simulation Studies** by using ETAP software covering power system to design, analyze, monitor and operations of electrical systems in generation, transmission, distribution.

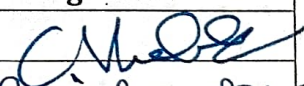
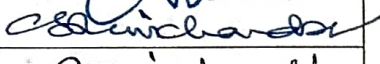
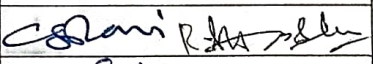
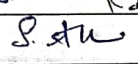
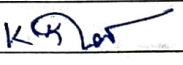
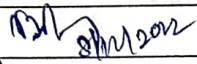
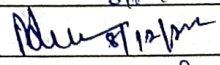
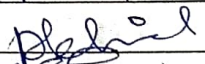
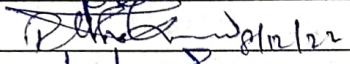
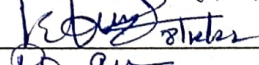
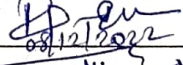
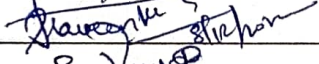
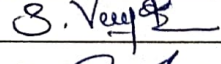
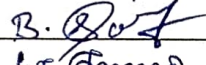
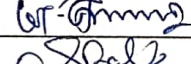
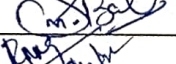
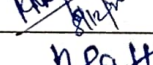
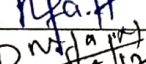
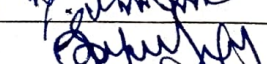
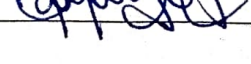
S. No	Name of the Members	Designation	Signature
1.	Dr. C. Kathirvel	Chairperson	
2.	Dr. Sujatha Balaraman	University Nominee	Attended through Virtual Mode
3.	Dr. D. Madhan Mohan	Industrial Expert	Attended through Virtual Mode

4.	Mr. Premsunder Ravi	Industrial Expert	Attended through Virtual Mode
5.	Dr. L. Ashok Kumar	Academic Expert	Attended through Virtual Mode
6.	Dr. S. Jeevananthan	Subject Expert	Attended through Virtual Mode
7.	Mr. S. Vinoth Kumar	Alumni Member	Attended through Virtual Mode
8.	Dr. C. S. Ravichandran	Member	<i>C. Ravichandran</i>
9.	Dr. R. Shanmugasundaram	Member	<i>R. Shanmugasundaram</i>
10.	Dr. S. Allirani	Member	<i>S. Allirani</i>
11.	Dr. K. Sebastirani	Member	<i>K. Sebastirani</i>
12.	Dr. P. Sebastian Vindro Jude	Member	<i>P. Sebastian Vindro Jude 8/12/2022</i>
13.	Mr. R. Mohan Kumar	Member	<i>R. Mohan Kumar 8/12/2022</i>
14.	Dr. R. Krishnakumar	Member	<i>R. Krishnakumar 8/12/2022</i>
15.	Dr. K. Uthayarani	Member	<i>K. Uthayarani</i>
16.	Dr. R. Kasthuri	Member	<i>R. Kasthuri 8/12/2022</i>
17.	Mrs. E. Shanthini	Member	<i>E. Shanthini 8/12/2022</i>


CHAIRPERSON
BOARD OF STUDIES
 Department of Electrical
 and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet – 16th Board of Studies (UG)

08.12.2022

S. No.	Name of The Faculty	Signature
1	Dr. C. Kathirvel, Professor and Head	
2	Dr. C. S. Ravichandran, Professor	
3	Dr. R. Shanmugasundram, Professor	
4	Dr. S. Allirani, Associate Professor	
5	Dr. K. Sebasthirani, Associate Professor	
6	Dr. K. Balamurugan, Assistant Professor (Sl. Gr)	
7	Mr. V. Gopu, Assistant Professor (Sl. Gr)	
8	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	
9	Mrs. M. Chindamani, Assistant Professor (Sl. Gr)	
10	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	
11	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	
12	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	
13	Mr. C. Praveenkumar, Assistant Professor (Sr. Gr)	
14	Mr. S. Venkatesh Kumar, Assistant Professor (Sr. Gr)	
15	Mr. B. Sridhar, Assistant Professor (Sr.G)	
16	Dr. M. Ezhilarasi, Assistant Professor (Sr.G)	
17	Mr. S. M. Balaganesan, Assistant Professor (Sr.G)	
18	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.G)	
19	Mrs. H. Vidhya, Assistant Professor (Sr.G)	
20	Mrs. N. Divya, Assistant Professor (Sr.G)	
21	Mr. M. Karthik, Assistant Professor (OG)	
22	Mrs. P. Deepa, Assistant Professor (OG)	
23	Mr. B. Marisekar, Assistant Professor (OG)	
24	Mr. R. Santhoshkumar, Assistant Professor (OG)	


CHAIRPERSON
BOARD OF STUDIES
 Department of Electrical and
 Electronics Engineering

Screenshots of the Meeting

SRI RAMAKRISHNA ENGINEERING COLLEGE
[It is an ISO 9001:2015 Certified Organization]
 [Recognized Institution, Approved by the NAAC with 'A' Grade]
 [Approved by AICTE and Government of Karnataka, Government of India]
 [100% NEET (Medical) and all eligible engineering students accepted by MRC]
Department of Electrical and Electronics Engineering
16th Board of Studies Meeting
 Hearty Welcome to all
 08.12.2022
 Dr. C. Kathirvel, HoD - EEE

No.	Name of the Member	Constituency of the Committee
1	Dr. C. Kathirvel, Professor & Head	Chairperson, BoS - EEE
2	Dr. Sujatha Balaraman, Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore	University Nominee (UG & PG)
3	Dr. D. Madhan Mohan, R&D Team Lead - Grid & Power Quality Solutions, HITACHI Energy Technologies & Services India Ltd., HITACHI Energy, Chennai	Industrial Expert
4	Mr. Premwunder Ravi, Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai	Industrial Expert
5	Dr. L. Ashok Kumar, Professor and Associate Head, Department of EEE, PSG College of Technology, CBE	Academic Expert
6	Dr. S. Jeevananthan, Professor, Department of EEE, Pondicherry Engineering College, Pondicherry	Subject Expert (from Other University)
7	Mr. S. Vinoth Kumar, Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka	Alumni Member (Batch: 2009 - 2011)

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Dr. C.Kathirvel
Cobalt

VINOTH KUMAR S

Prof.S.Jeevananthan

Dr. D. Madhan Mohan

Layout

Viewing Dr. C.Kathirvel's application(s)

Agenda

- Regulation R2020 & RR2020
- Professional Elective Courses in R2020
- One Credit Course
- NPTEL Credit Transfer
- Result Analysis for the AY: 2021 - 2022
- Details of Degree Awarded for the AY: 2021-2022
- Details of Readmitted Student
- Award of UG (Hons) with Specialization, UG with Minor and UG (Hons) Degree
- Service Courses Offered to Department of Mechanical Engineering
- PG Regulations 2022

Participants (23)

Search

- Dr. C.S. Ravichandran
- Dr. D. Madhan Mohan
- Dr. K. Sebasthirani
- Dr. S. Allirani
- Gopu. V
- H. VIDHYA
- kasthuriprem
- Krishna Kumar
- MARI SEKAR

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Sujatha

Ashok Kumar L

balaganesan.sm

Divya N

Dr. Ezhilarasi Nagarajan

Dr. K. Sebasthirani

Dr. K. Uthayaram

kasthuriprem

M. KARTHICK

Ragavapathy

Shanmugasundaram

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SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 16th BOARD OF STUDIES MEETING FOR THE PG POWER ELECTRONICS AND DRIVES PROGRAMME HELD ON 08.12.2022 AT 11.30 AM THROUGH ONLINE WEBEX PLATFORM.

The following members were attended the above meeting.

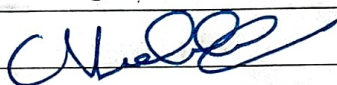
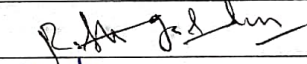
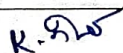
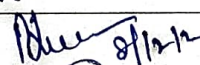
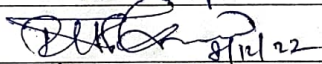
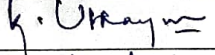
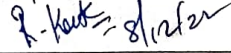
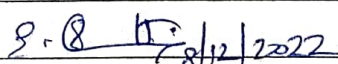
1. **Dr. C. Kathirvel**, Professor & Head, EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Prem Sunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITECH Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Senior Engineer - Protection and Control, M/s. WSP Global, Bangalore Urban, Karnataka.
8. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
9. **Dr. R. Shanmugasundram**, Professor / EEE, SREC
10. **Dr. S. Allirani**, Associate Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
13. **Mr. R. Mohan Kumar**, Assistant Professor (Sl.G) / EEE, SREC
14. **Dr. R. Krishnakumar**, Assistant Professor (Sl.G) / EEE, SREC
15. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
16. **Dr. R. Kasthuri**, Assistant Professor (Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Professor Dr. C. Kathirvel, Chairperson, Board of Studies, chaired the meeting and welcomed all the members for the 16th Board of Studies meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.: 1

- It is resolved that the PG Regulations 2022 will be followed for the students admitted from academic year 2022-2023 onwards.

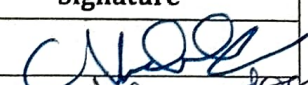
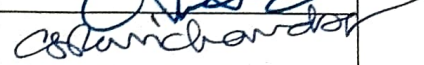
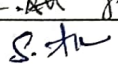
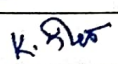
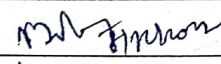
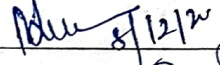
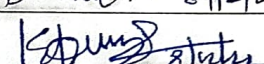
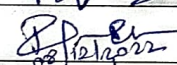
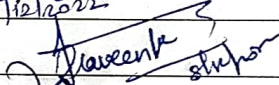
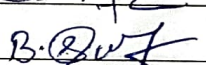
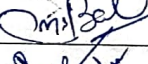
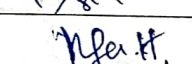
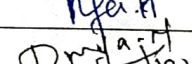
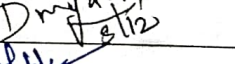
Suggestions/Comments from External Expert Members and University Nominee: Nil

S. No	Name of the Members	Designation	Signature
1.	Dr. C. Kathirvel	Chairperson	
2.	Dr. Sujatha Balaraman	University Nominee	Attended through Virtual Mode
3.	Dr. D. Madhan Mohan	Industrial Expert	Attended through Virtual Mode
4.	Mr. Prem Sunder Ravi	Industrial Expert	Attended through Virtual Mode
5.	Dr. L. Ashok Kumar	Academic Expert	Attended through Virtual Mode
6.	Dr. S. Jeevananthan	Subject Expert	Attended through Virtual Mode
7.	Mr. S. Vinoth Kumar	Alumni Member	Attended through Virtual Mode
8.	Dr. C. S. Ravichandran	Member	
9.	Dr. R. Shanmugasundram	Member	
10.	Dr. S. Allirani	Member	
11.	Dr. K. Sebastirani	Member	
12.	Dr. P. Sebastian Vindro Jude	Member	
13.	Mr. R. Mohan Kumar	Member	
14.	Dr. R. Krishnakumar	Member	
15.	Dr. K. Uthayarani	Member	
16.	Dr. R. Kasthuri	Member	
17.	Mrs. E. Shanthini	Member	


CHAIRPERSON
BOARD OF STUDIES
 Department of Electrical
 and Electronics Engineering

Department of Electrical and Electronics Engineering
Attendance Sheet - 16th Board of Studies (PG)

08.12.2022

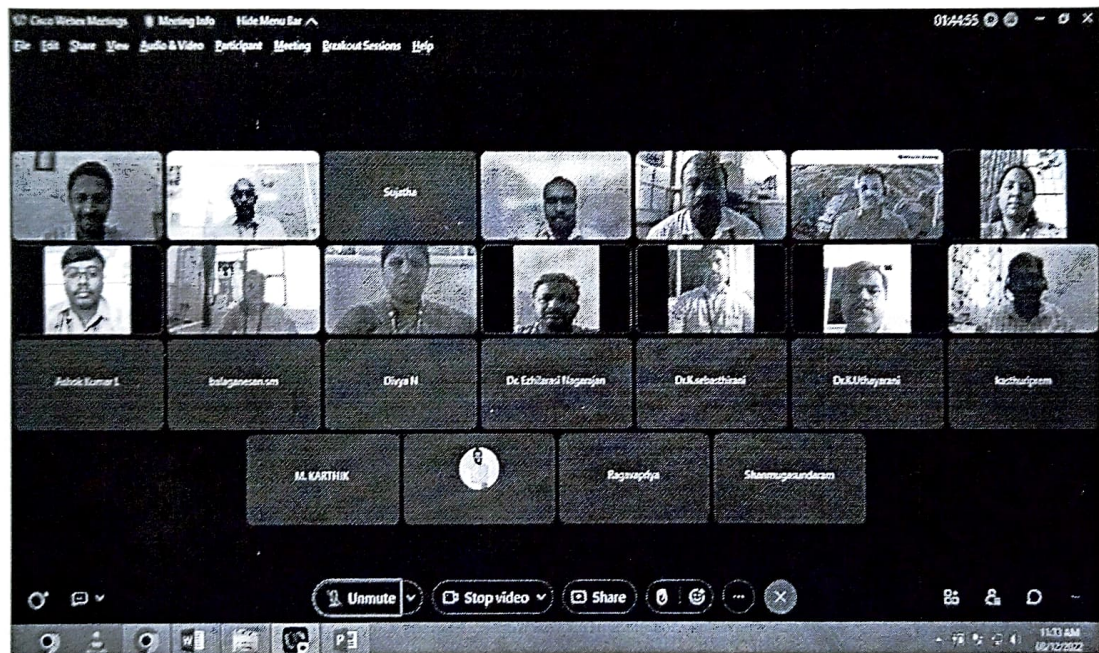
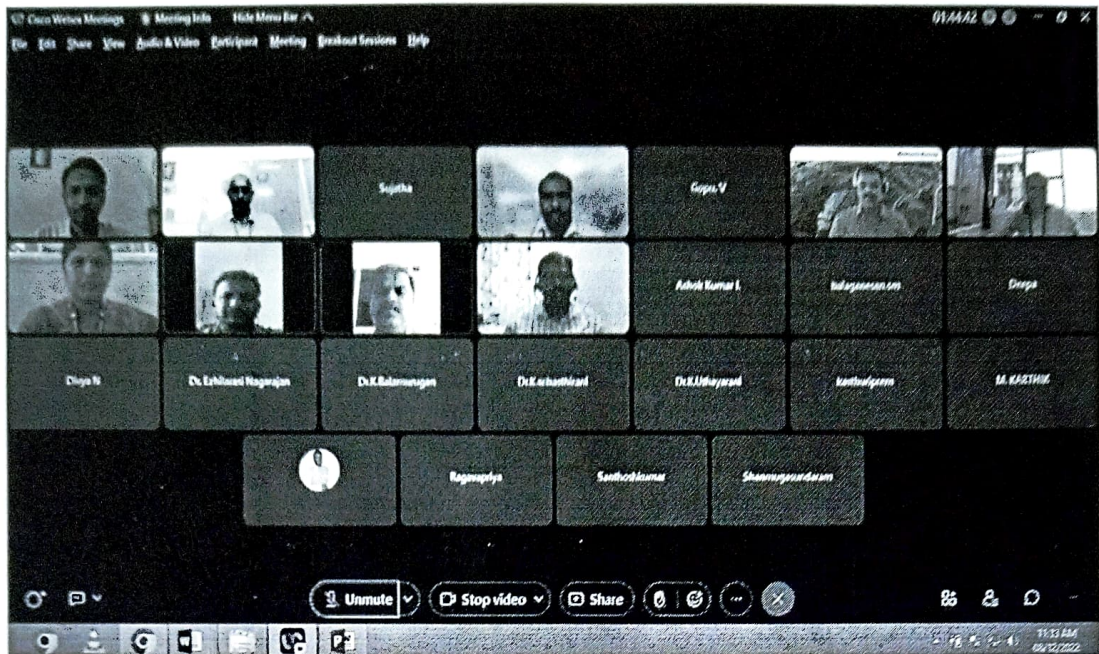
S. No.	Name of The Faculty	Signature
1	Dr. C. Kathirvel, Professor and Head	
2	Dr. C. S. Ravichandran, Professor	
3	Dr. R. Shanmugasundram, Professor	
4	Dr. S. Allirani, Associate Professor	
5	Dr. K. Sebasthirani, Associate Professor	
6	Dr. K. Balamurugan, Assistant Professor (Sl. Gr)	
7	Mr. V. Gopu, Assistant Professor (Sl. Gr)	
8	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	
9	Mrs. M. Chindamani, Assistant Professor (Sl. Gr)	
10	Mr. R. Mohan Kumar, Assistant Professor (Sl. Gr)	
11	Dr. R. Krishnakumar, Assistant Professor (Sl. Gr)	
12	Mrs. R. K. Ragavapriya, Assistant Professor (Sl. Gr)	
13	Mr. C. Praveenkumar, Assistant Professor (Sr. Gr)	
14	Mr. S. Venkatesh Kumar, Assistant Professor (Sr. Gr)	
15	Mr. B. Sridhar, Assistant Professor (Sr.G)	
16	Dr. M. Ezhilarasi, Assistant Professor (Sr.G)	
17	Mr. S. M. Balaganesan, Assistant Professor (Sr.G)	
18	Mrs. R. R. Rubia Gandhi, Assistant Professor (Sr.G)	
19	Mrs. H. Vidhya, Assistant Professor (Sr.G)	
20	Mrs. N. Divya, Assistant Professor (Sr.G)	
21	Mr. M. Karthik, Assistant Professor (OG)	
22	Mrs. P. Deepa, Assistant Professor (OG)	
23	Mr. B. Marisekar, Assistant Professor (OG)	
24	Mr. R. Santhoshkumar, Assistant Professor (OG)	


CHAIRPERSON
BOARD OF STUDIES
Department of Electrical and
Electronics Engineering

Screenshots of the Meeting

This screenshot shows a Cisco Webex Meeting window. The top bar includes 'Cisco Webex Meetings', 'Meeting Info', and 'Hide Menu Bar'. Below the bar are tabs for 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Meeting', 'Breakout Sessions', and 'Help'. The main content area displays a presentation slide from 'SRI RAMAKRISHNA ENGINEERING COLLEGE'. The slide text includes: 'Department of Electrical and Electronics Engineering', '16th Board of Studies Meeting', a photograph of the college building, 'Hearty Welcome to all', the date '08.12.2022', and the presenter's name 'Dr. C. Kathirvel, HoD - EEE'. The right sidebar shows a list of 21 participants, including Mohan Kumar (Host), Dr. C. Kathirvel (Co-host), and others. The bottom status bar shows 'Unmute', 'Start video', 'Share', and a timestamp of 10:30 AM on 08/12/2022.

This screenshot shows the same Cisco Webex Meeting window, but the presentation slide has changed to 'PG Regulations 2022'. The slide is mostly blank with the title centered. The participant list on the right now shows 29 participants, including Dr. K. Balamurugan and Dr. V. K. Sathishkumar. The bottom status bar shows a timestamp of 10:31 AM on 08/12/2022.





SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 15th BOARD OF STUDIES MEETING FOR THE UG ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMME HELD ON 05.03.2022 AT 11.00 AM IN EEE DEPARTMENT.

The following members attended the above meeting.

1. **Dr. C. Kathirvel**, Professor & Head, EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee-UG & PG), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Preamsunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITECH Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Electrical – P & C Secondary Design Engineer, M/S Balfour Beatty Infrastructure India Pvt. Ltd., Bangalore.
8. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
9. **Dr. R. Shanmugasundaram**, Professor / EEE, SREC
10. **Dr. S. Allirani**, Associate Professor / EEE, SREC
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16. **Dr. R. Kasthuri**, Assistant Professor(Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Professor Dr. C. Kathirvel, Chairperson, Board of Studies, chaired the meeting and welcomed all the members for the 15th Board of Studies meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

Regulation 2020:

- It is resolved that Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. Programmes for students admitted in the Academic year 2020 & onwards.
- It is resolved that the syllabi for the following new Professional Elective courses under Regulations 2020 be approved and passed.
 1. 20EE2E01 - Electric Energy Generation, Utilization and Conservation
 2. 20EE2E02 - Wind and Solar Energy Systems
 3. 20EE2E03 - Power System Economics and Control Techniques
 4. 20EE2E04 - Power Quality
 5. 20EE2E05 - Smart Energy Delivery Systems
 6. 20EE2E06 - Design of Electrical Apparatus
 7. 20EE2E07 - Electrical and Industrial Safety Engineering
 8. 20EE2E08 - Special Electrical Machines
 9. 20EE2E09 - Managing Innovation and Entrepreneurship
- It is resolved that the curriculum and syllabi be approved for the Specialization in degree programme

Programme					
S. No	Course Code	Course Title	Credits	Mode of Delivery	Offered by
1	20EES01	Vehicle Dynamics	3	Class / NPTEL	SREC / Industry (M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai)
2	20EES02	Energy Storage Systems	3		
3	20EES03	Automotive Transmission Systems	3		
4	20EES04	Battery Pack Design and Thermal Management	3		
5	20EES05	Charging Infrastructure for Electric Vehicles	3		
6	20EES06	Drive Train Technologies and Controls	3		
7	20EES07	Electric Vehicle Laboratory	1	SREC / Industry	
8	20EES08	Mini Project	1	Industry / NPTEL Platform	
	-	Internship / Online Certifications			

Amendment to Clause 35 of B.E./B.Tech programmes under Regulations 2020 for the 2020 – 2021 admitted students only.

For mandatory courses every student shall put in the required attendance and training as per the course requirement. However, the successful completion of one course from Personality and Character Development category (OR) one course from Allied Skills category is sufficient in addition to mandatory [EEC] Employment Enhancement Courses / department allied courses as prescribed in the curriculum of the programme concerned for the award of degree.

This decision are taken as ONE TIME MEASURE and with due approval from the academic council standing committee / competent authority for the 2020 – 2021 admitted students only.

Regulation 2016:

- It is resolved that Regulation 2016 (Version 1.0) will be followed (Choice Based Credit System) for all B.E./B.Tech. Programmes for students admitted during the Academic year 2018-2019 and 2019-2020.

- Amendment to Clause 3 of B.E./B.Tech programmes under Regulations 2016.

The clause 13 of Regulation 2016 V-1.0 (Choice Based Credit System) shall be completely exempted for the candidates admitted during the year 2018 – 2019 and 2019 – 2020 and they are permitted to appear for all the reappearance examinations in the subsequent semester up to the maximum period of study.

This decisions are taken as ONE TIME MEASURE and with due approval from the academic council standing committee / competent authority.

- Amendment to Clause 15.3 of B.E./B.Tech programmes under Regulations 2016.

Clause	Existing	Amended
15.3	The student who fails in the laboratory course shall repeat the same in the subsequent semester and repeat the laboratory course again.	If a candidate fails to secure a pass or is absent for the end semester examinations in the laboratory course he/she shall do reappearance registration for that laboratory course in the subsequent semester / when offered next. This is applicable for the candidates admitted under Regulations 2016.

- It is resolved that the approved Summer School's / Winter School's / GIAN courses conducted by the foreign Universities for a minimum period of 10 days may be considered as equivalent to One Credit Course in the Regulation 2016 (Ver 1.0) / may be considered for credit transfer.

- It is informed that the register number allotted for the students admitted to the various UG/PG programmes from the academic year 2021 – 2022 will be prefixed with the college code 7181. Hence the register number will be as follows.

Register Number: 718121XXYZZ

7181 – College Code

21 – Year of Admission

XX – Branch Code

Y – Section

ZZ – Serial number

- The following decisions are taken as one time measure due to the COVID Pandemic.
1. Classes to be handled online with 5 sessions per day.
 2. End semester examination to be conducted online.

Suggestion given by the expert members on Regulations, Curriculum, various courses and electives.

The board members highly appreciated the efforts taken for the preparation of the contents of curriculum with reference to the emerging areas and the scope for multidisciplinary approach.

Suggestions given by Dr. Sujatha Balaraman, University Nominee:

- In the course **20EES05 - Charging Infrastructure for Electric Vehicles**, the topic Microprocessor based charger circuit in module I can be changed as **Charge Controllers**.

Suggestions given by Mr. Premsunder Ravi, Industry Expert:

- Inclusion of Lecture notes or material related to EV in the specialization syllabus.
- Suggested to change the course title for the course **20EES06 - Electric Drive Technologies and Controls** as **20EES06 - Drive Train Technologies and Controls**.
- Inclusion of the topic SynRM in the course **20EES06 - Drive Train Technologies and Controls**.

Suggestions given by Dr. D. Madhan Mohan, Industry Expert:

- To kindle the interest in the EV specialization, include the topic **Requirement of Batteries in EV** in the course **20EES02 – Energy Storage Systems**.

Suggestions given by Dr. S. Jeevananthan, Subject Expert:

- In the course **20EES02 – Energy Storage Systems**, the Module II title may be revamped as “**Energy Storage Devices and its Types**”. Also include the topics like Super capacitor, fuel cell, battery sizing in the module II.
- In Module III, **Battery Testing Standards** may be included.

Suggestions given by Dr. L. Ashok Kumar, Academic Expert:

- LTO Fast charging topic may be included in the course **20EES02 – Energy Storage Systems**.
- The board member suggested to have **Battery Characteristics and Parameters** as the first module and **Batteries and its Types** as the second module.
- Suggested to include the topic **Types of Braking** in the course **20EES03 - Automotive Transmission Systems**.
- Suggested to revamp the contents of Module II & III in the course **20EES06 - Drive Train Technologies and Controls**.

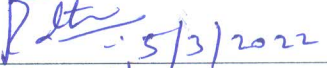
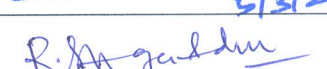
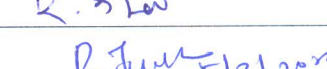
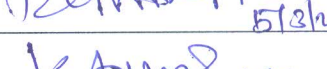
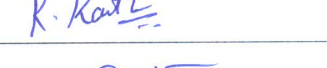
Suggestions given by S. Vinothkumar, Alumni Member:

- In the course **20EES03 - Automotive Transmission Systems**, the term power plant in module I can be replaced by power train.
- The following courses were identified as Value Added Course under R2020 regulation.

S. No	Name of the Course
1.	Energy Conservation and Audit
2.	Power Electronics Applications with MATLAB
3.	Principles of Power System Protection
4.	Power System Reliability

- The course **20EE205 – Control Systems** was identified for the open book test under R2020.

Suggestions/Comments from External Expert Members and University Nominee to be recorded.

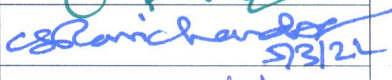
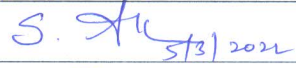
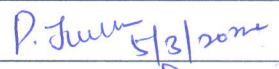
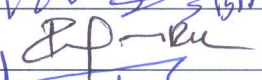
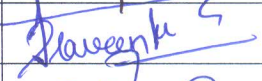
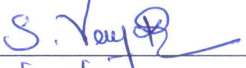
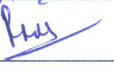
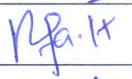
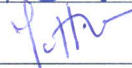
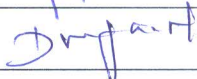
S. No	Name of the Members	Designation	Signature
1.	Dr. C. Kathirvel	Chairperson	
2.	Dr. Sujatha Balaraman	University Nominee (UG & PG)	 5/3/2022
3.	Dr. D. Madhan Mohan	Industrial Expert	 5/3/22
4.	Mr. Premsunder Ravi	Industrial Expert	 5/3/2022
5.	Dr. L. Ashok Kumar	Academic Expert	
6.	Dr. S. Jeevananthan	Subject Expert	
7.	Mr. S. Vinoth Kumar	Alumni Member	
8.	Dr. C. S. Ravichandran	Member	 5/3/22
9.	Dr. R. Shanmugasundaram	Member	
10.	Dr. S. Allirani	Member	 5/3/2022
11.	Dr. K. Sebastirani	Member	
12.	Dr. P. Sebastian Vindro Jude	Member	 5/3/2022
13.	Mr. R. Mohan Kumar	Member	 5/3/22
14.	Dr. R. Krishnakumar	Member	 5/3/22
15.	Dr. K. Uthayarani	Member	
16.	Dr. R. Kasthuri	Member	
17.	Mrs. E. Shanthini	Member	


CHAIRPERSON
BOARD OF STUDIES
Department of Electrical
and Electronics Engineering

Department of Electrical and Electronics Engineering

Attendance Sheet – 15th Board of Studies (UG)

05.03.2022

S. No.	Name of The Faculty	Signature
1	Dr. C. Kathirvel, Professor and Head	
2	Dr. C. S. Ravichandran, Professor	 5/3/22
3	Dr. R. Shanmugasundaram, Professor	
4	Dr. S. Allirani, Associate Professor	 5/3/2022
5	Dr. K. Sebasthirani, Associate Professor	
6	Dr. K. Balamurugan, Assistant Professor (Sl. Gr)	
7	Mr. V. Gopu, Assistant Professor (Sl. Gr)	— Absent —
8	Dr. P. Sebastian Vindro Jude, Assistant Professor (Sl. Gr)	 5/3/2022
9	Mrs. M. Chindamani, Assistant Professor (Sl. Gr)	
10	Mr. R. Mohan Kumar, Assistant Professor (Sr. Gr)	 5/3/22
11	Dr. R. Krishnakumar, Assistant Professor (Sr. Gr)	
12	Mrs. R. K. Ragavapriya, Assistant Professor (Sr. Gr)	
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BOARD OF STUDIES
Department of Electrical and
Electronics Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE - 22

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

MINUTES OF THE 15th BOARD OF STUDIES MEETING FOR THE PG POWER ELECTRONICS AND DRIVES PROGRAMME HELD ON 05.03.2022 AT 12.30 PM IN EEE DEPARTMENT.

The following members were attended the above meeting.

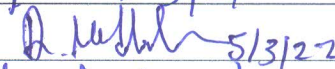
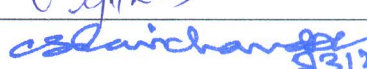
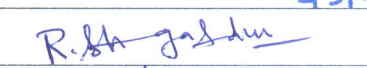
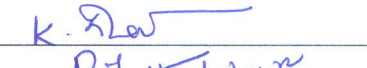
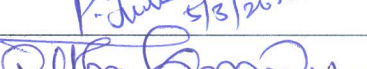
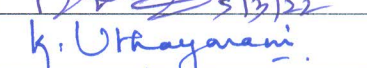
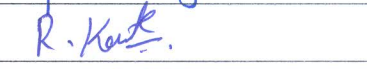
1. **Dr. C. Kathirvel**, Professor & Head, EEE, SREC – Chairperson, BoS - EEE
2. **Dr. Sujatha Balaraman**, (University Nominee-UG & PG), Associate Professor (CAS), Department of EEE, Government College of Technology, Coimbatore.
3. **Mr. Premsunder Ravi**, (Industrial Expert), Lead Engineer, M/s. Mahindra & Mahindra Ltd., Mahindra Research Valley, Chennai.
4. **Dr. D. Madhan Mohan**, (Industrial Expert), R&D Team Lead – Grid & Power Quality Solutions, HITACHI Energy Technologies & Services Ltd, HITECH Energy, Chennai.
5. **Dr. L. Ashok Kumar**, (Academic Expert), Professor and Associate Head, Department of EEE, PSG College of Technology, Coimbatore.
6. **Dr. S. Jeevananthan**, (Subject Expert from other University), Professor, Department of EEE, Pondicherry Engineering College, Pondicherry.
7. **Mr. S. Vinoth Kumar**, (Alumni Member), Electrical – P & C Secondary Design Engineer, M/S Balfour Beatty Infrastructure India Pvt. Ltd., Bangalore.
8. **Dr. C. S. Ravichandran**, Professor / EEE, SREC
9. **Dr. R. Shanmugasundaram**, Professor / EEE, SREC
10. **Dr. S. Allirani**, Associate Professor / EEE, SREC
11. **Dr. K. Sebastirani**, Associate Professor / EEE, SREC
12. **Dr. P. Sebastian Vindro Jude**, Assistant Professor (Sl.G) / EEE, SREC
13. **Mr. R. Mohan Kumar**, Assistant Professor (Sr.G) / EEE, SREC
14. **Dr. R. Krishnakumar**, Assistant Professor (Sr.G) / EEE, SREC
15. **Dr. K. Uthayarani**, Professor & Head, Department of Physics, SREC
16. **Dr. R. Kasthuri**, Assistant Professor(Sl.G) / Mathematics, SREC
17. **Mrs. E. Shanthini**, Assistant Professor (Sl.G) / ECE, SREC

Professor Dr. C. Kathirvel, Chairperson, Board of Studies, chaired the meeting and welcomed all the members for the 15th Board of Studies meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.: 1

It is resolved that the PG Regulations 2018 will be followed for the students admitted from academic year 2020-2021 onwards.

Suggestions/Comments from External Expert Members and University Nominee: Nil

S. No	Name of the Members	Designation	Signature
1.	Dr. C. Kathirvel	Chairperson	
2.	Dr. Sujatha Balaraman	University Nominee (UG & PG)	 5/3/2022
3.	Dr. D. Madhan Mohan	Industrial Expert	 5/3/22
4.	Mr. Prem Sunder Ravi	Industrial Expert	 5/3/2022
5.	Dr. L. Ashok Kumar	Academic Expert	
6.	Dr. S. Jeevananthan	Subject Expert	
7.	Mr. S. Vinoth Kumar	Alumni Member	 V. S.
8.	Dr. C. S. Ravichandran	Member	 5/3/22
9.	Dr. R. Shanmugasundaram	Member	 R. Shanmugasundaram
10.	Dr. S. Allirani	Member	 S. Allirani 5/3/2022
11.	Dr. K. Sebastirani	Member	 K. Sebastirani
12.	Dr. P. Sebastian Vindro Jude	Member	 P. Jude 5/3/2022
13.	Mr. R. Mohan Kumar	Member	 R. Mohan Kumar 5/3/22
14.	Dr. R. Krishnakumar	Member	 R. Krishnakumar 5/3/22
15.	Dr. K. Uthayarani	Member	 K. Uthayarani
16.	Dr. R. Kasthuri	Member	 R. Kasthuri
17.	Mrs. E. Shanthini	Member	 E. Shanthini

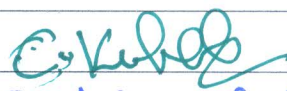
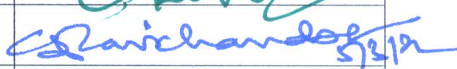
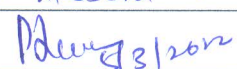
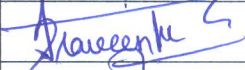
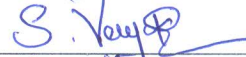
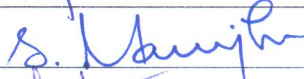
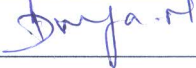


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BOARD OF STUDIES
 Department of Electrical
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Department of Electrical and Electronics Engineering

Attendance Sheet – 15th Board of Studies (UG)

05.03.2022

S. No.	Name of The Faculty	Signature
1	Dr. C. Kathirvel, Professor and Head	
2	Dr. C. S. Ravichandran, Professor	
3	Dr. R. Shanmugasundaram, Professor	
4	Dr. S. Allirani, Associate Professor	
5	Dr. K. Sebasthirani, Associate Professor	
6	Dr. K. Balamurugan, Assistant Professor (Sl. Gr)	
7	Mr. V. Gopu, Assistant Professor (Sl. Gr)	— Absent —
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