



SRI RAMAKRISHNA ENGINEERING COLLEGE

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

 www.srec.ac.in
 +917530089996



**MINUTES OF THE 23rd BOARD OF STUDIES MEETING FOR THE UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON
27.03.2026 AT 02.00 PM IN THE DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION ENGINEERING.**

The following members attended the above meeting.

1. **Dr.R.Shanmugasundaram**
Chairman
Professor and Head
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr.P.Subha Karuvelam**
University Nominee
Professor, Department of Electrical and Electronics Engineering
Government College of Engineering
Tirunelveli- 627007
3. **Dr.Sukomal Dey**
Subject Expert from IITs/NIITs
Associate Professor
Department of Electrical Engineering
Indian Institute of Technology (IIT) Palakkad, Kanjicode
Palakkad, Kerala-678623
4. **Dr.B.Banu Rekha**
Subject Expert from Government/Aided Colleges
Associate Professor
Department of Biomedical Engineering
PSG College of Technology, Coimbatore-641004
5. **Mr.Srikanth Gowtham**
Industry Representative
Associate group Manager, Leading Digital Engineering and Transformation
Voya India, Bangaluru, Karnataka-560045

6. **Mr.L.P.Ganesh**
Meritorious Alumnus
Associate Tech Director, Engineering Manager
Bosch Global Software Technologies Pvt. Ltd.
Hosur Road, Adugodi, Bengaluru, Karnataka-560 030
7. **Dr.B.Sharmila**
Internal Member
Professor
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani**
Coordinator & Internal Member
Associate Professor
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.D.Devasena**
Internal Member
Associate Professor
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Mr.Y.Dharshan**
Internal Member
Assistant Professor (Sl.G)
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
11. **Dr.M.Nagarajapandian**
Internal Member
Assistant Professor (Sl.G)
Department of Electronics and Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
12. **Dr.T.Anitha**
Internal Member
Assistant Professor (Sl.G)
Department of Electronics and Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

Prof.Dr.R.Shanmugasundaram Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 23rd BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1

- The Vision and Mission statements of the Institution and the Department was disseminated. Also the Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs) of the department was discussed and disseminated. The members expressed their appreciation for the statements.

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 2022, 2023 and 2024.
- It is resolved that Regulations 2025 (Outcome based Curriculum through Choice based Credit System,) will be followed for all B.E./B.Tech/M.Tech (Int). programmes for students admitted in the Academic year 2025 and onwards.
- It is resolved that the Curriculum be approved for Semester V to Semester VI.

Semester I

S. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25MA2102	Algebra, Differential Calculus and Transform	BSC	3	1	0	4
2.	25PH2101	Applied Material Science	BSC	2	0	0	2
3.	25EI2100	Frontiers in Instrumentation	ESC	2	0	0	2
4.	25EI2101	Electric Circuit Theory	ESC	3	0	0	3
5.	25EI2102	Electron Devices	ESC	2	0	0	2
6.	25TA2100	Heritage of Tamils –தமிழர் மரபு	HSSM	1	0	0	1
THEORY CUM LABORATORY							
7.	25CS2151	C Programming	ESC	2	0	2	3
8.	25EN2100	Business and Corporate Communication	HSSM	2	0	2	3
PRACTICALS							
9.	25EI2170	Electron Devices and Circuits Laboratory	ESC	0	0	2	1
10.	25EI2171	Simulation Laboratory	ESC	0	0	2	1
Total							22

Semester II

S.No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25HS2101	Indian Knowledge System	HSSM	2	0	0	2
2.	25MA2107	Integral Calculus and Partial Differential Equations	BSC	3	1	0	4
3.	25CH2105	Electrochemical Science	BSC	2	0	0	2
4.	25BM2101	Neuroscience	BSC	1	0	0	1
5.	25TA2101	Tamils and Technology தமிழரும் தொழில்நுட்பமும்	HSSM	1	0	0	1
THEORY CUM LABORATORY							
6.	25IT2151	Python Programming	ESC	2	0	2	3
7.	25EI2150	Electrical Machines	PCC	2	0	2	3
PRACTICALS							
8.	25BS2171	Physical Sciences Laboratory	BSC	0	0	2	1
9.	25EN2101	Functional English	AEC	0	0	4	2
Total							19

Semester III

S. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25MA2115	Transforms and Numerical Methods	BSC	2	0	0	2
2.	25EI2200	Digital Systems	PCC	3	0	0	3
3.	25EI2201	Analog Integrated Circuits	PCC	2	0	0	2
THEORY CUM LABORATORY							
4.	25CS2261	Data Structures and Algorithms	ESC	2	0	2	3
5.	25EI2250	Sensors and Transducers	PCC	2	0	2	3
PRACTICALS							
6.	25EI2270	Analog Integrated Circuits Laboratory	PCC	0	0	2	1
7.	25EI2271	Digital Systems Laboratory	PCC	0	0	2	1
8.	25EI2272	Virtual Instrumentation Laboratory	ESC	0	0	2	1
9.	25AE2102	Soft Skills for Professional Development	AEC	0	0	2	2
10.		Management related courses(Common)	VAC	2	0	0	2
11.	25EI2290	Transmitters and Actuators	SEC	0	0	2	2
Total							22

Semester IV

S. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25MA2121	Probability Distributions and Statistical Modeling	BSC	2	0	0	2
2.	25EI2202	Embedded System Architecture (Embedded Systems)	PCC	3	0	0	3
3.	25EI2203	Control Systems	PCC	2	0	0	2
		Professional Elective I	PEC	3	0	0	3
4.		Open Elective I	OEC	3	0	0	3
THEORY CUM LABORATORY							
5.	25EI2251	IoT and Applications (Internet of Things)	PCC	1	0	2	2
PRACTICALS							
6.	25EI2273	Embedded Systems Laboratory	PCC	0	0	2	1
7.	25EI2274	Control Systems Laboratory	PCC	0	0	2	1
8.		Vedic Mathematics//Dance/ Yoga	LAC	2	0	0	2
9.	25AE2100	Verbal/Aptitude training	AEC	2	0	0	2
10.	25EI2275	Mini project	ELC	0	0	4	2
Total							23

Semester V

S.No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25EI2300	Industrial Automation	PCC	2	0	0	2
2.	25EI2301	Industrial Instrumentation I	PCC	3	0	0	3
3.		Professional Elective II	PEC	3	0	0	3
4.		Open Elective II	OEC	3	0	0	3
THEORY CUM LABORATORY							
6.	25EI2350	Digital Signal Processing and Applications (Digital Signal Processing)	PCC	2	0	2	3
7.		Java Programming	MDC	2	0	2	3
PRACTICALS							
8.	25EI2370	Hardware Description Language Laboratory	PCC	0	0	2	1
9.	25EI2371	Industrial Automation Laboratory	PCC	0	0	2	1
10.	25EI2291	Piping and Instrumentation Diagram	SEC	1	0	2	2
11.		Management related courses(Common)	VAC	2	0	0	2
Total							23

Semester VI

Sl. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.		Entrepreneurial skills and Management/Total Quality Management (Common)	HSSM	3	0	0	3
2.	25EI2302	Power Electronics and Applications	PCC	2	0	0	2
3.	25EI2303	Process Dynamics and Control	PCC	3	1	0	4
4.	25EI2304	Industrial Instrumentation II	PCC	2	0	0	2
5.		Professional Elective III	PEC	3	0	0	3
THEORY CUM LABORATORY							
6.	25EI2351	Model Based System Design	PCC	1	0	2	2
		AI for Instrumentation Engineers	MDC	2	0	2	3
PRACTICALS							
7.	25EI2372	Process Dynamics and Control Laboratory	PCC	0	0	2	1
8.	25EI2373	Industrial Instrumentation Laboratory	PCC	0	0	2	1
9.	25EI2374	Multidisciplinary Project	ELC	0	0	4	2
Total							23

Semester VII

Sl. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.		Business Intelligence/Total Quality Management/Professional Ethics (Common)	HSSM	3	0	0	3
2.	25EI2305	Green Electronics	PCC	2	0	0	2
3.	25EI2306	Smart Factory	PCC	2	0	0	2
4.		Professional Elective IV	PEC	3	0	0	3
5.		Business Intelligence/Total Quality Management/Professional Ethics (Common)	HSSM	3	0	0	3
THEORY CUM LABORATORY							
6.	25EI2353	Computer Vision System	PCC	1	0	2	2
		Android Development	MMC	2	0	2	3
PRACTICAL							
7.	25EI2400	Internship	ELC	0	0	4	2
Total							17

Semester VIII

Sl. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.		Professional Elective V	PEC	3	0	0	3
2.		Professional Elective VI	PEC	3	0	0	3
PRACTICAL							
3.	25EI2401	Project Work	ELC	0	0	12	6
Total							12

The Syllabi was approved for the following courses (V & VI) semester

Semester V

S.No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.	25EI2300	Industrial Automation	PCC	2	0	0	2
2.	25EI2301	Industrial Instrumentation I	PCC	3	0	0	3
THEORY CUM LABORATORY							
6.	25EI2350	Digital Signal Processing and Applications (Digital Signal Processing)	PCC	2	0	2	3
PRACTICALS							
8.	25EI2370	Hardware Description Language Laboratory	PCC	0	0	2	1
9.	25EI2371	Industrial Automation Laboratory	PCC	0	0	2	1
10.	25EI2291	Piping and Instrumentation Diagram	SEC	1	0	2	2

Semester VI

Sl. No.	Course code	Course Title	Category	L	T	P	C
THEORY							
1.		Entrepreneurial skills and Management/Total Quality Management (Common)	HSSM	3	0	0	3
2.	25EI2302	Power Electronics and Applications	PCC	2	0	0	2
3.	25EI2303	Process Dynamics and Control	PCC	3	1	0	4
4.	25EI2304	Industrial Instrumentation II	PCC	2	0	0	2
THEORY CUM LABORATORY							
6.	25EI2351	Model Based System Design	PCC	1	0	2	2
PRACTICALS							
7.	25EI2372	Process Dynamics and Control Laboratory	PCC	0	0	2	1
8.	25EI2373	Industrial Instrumentation Laboratory	PCC	0	0	2	1
9.	25EI2374	Multidisciplinary Project	ELC	0	0	4	2

- It is resolved that the modified course title of the following courses be approved and passed.

Semester	Old Name of the course	Modified name of the course
IV	Embedded Systems	Embedded System Architecture
	Internet of Things	IoT and Applications

- It is resolved that the syllabi for the following Professional Elective courses (Theory and Theory cum Laboratory) under Regulations 2025 be approved and passed.

- 25EI2323 – Biomedical Instrumentation
- 25EI2324 – Sensor Fusion
- 25EI2325 – VLSI Design
- 25EI2326 – Analytical Instrumentation
- 25EI2327 – Robotics Technology
- 25EI2328 – Soft Computing

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

25EI2284 – Testing and Calibration of Equipment

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

- 25EI2285 - Control Systems for Aeronautics(AERO)
- 25EI2286 - Embedded and IOT Systems (CSE)
- 25EI2287- Simulations of Mechanical Systems (MECH)

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

- 25EI2290 - Transmitters and Actuators (EIE)
- 25EI2291 - Piping and Instrumentation Diagram (EIE)
- 25EI2292 - Aerospace Sensors and Instruments (AERO)

ITEM No.3

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

ITEM No.4

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

S.No	Course title	Credits	Course Duration	Equivalent Professional/open elective in SREC Curriculum	No. of Students
1	Introduction to Industry 4.0 and Industrial Internet of Things	3	12 Weeks	20EI2E05 Industrial Internet of Things	23

- It is resolved that the following NPTEL courses are approved for credit transfer for the specialization students.

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent in SREC Curriculum
1	noc22_me123	Automation in Manufacturing	3	12 Weeks	20EI2E27 Smart Factory
2	nou23_bt05	Biomedical Instrumentation & Sensors	4	12 Weeks	20EI2E25 Biosensors and Wearable Sensors

ITEM No.5:

- It is resolved that the following candidates who have registered for additional credits during May/June 2025 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.

Batch: 2022 – 2026

Specialization/Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E27 – Smart Factory	2206004	Bharathi R	9.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206005	Chinthana M	8.83
	20EI2E28 – Automotive Sensors			

Specialization	20EI2E27 – Smart Factory	2206009	Dharshini K P	8.83
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206020	Ishwarya M	9.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206022	Jaikaruna S	9.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206040	Ragadarsini P N	9.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206043	Rithish S S	9.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206049	Suraaj P R	8.17
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206057	Darshan R	8.33
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206060	Shelton Sampaul K	7.67
	20EI2E28 – Automotive Sensors			
Specialization	20EI2E27 – Smart Factory	2206064	Dinesh Kumar C	7.67
	20EI2E28 – Automotive Sensors			
Minor	20EI2E27 – Smart Factory	2207006	Aravindh M S K	8.83
	20EI2E28 – Automotive Sensors			
Minor	20EI2E27 – Smart Factory	2207024	Jotika Harini A D	8.83
	20EI2E28 – Automotive Sensors			
Minor	20EI2E27 – Smart Factory	2207027	Kaviya Sree A	8.67
	20EI2E28 – Automotive Sensors			
Minor	20EI2E27 – Smart Factory	2207040	Sabharish Aananth K S	8.00
	20EI2E28 – Automotive Sensors			
Minor	20EI2E27 – Smart Factory	2207042	Sam Joshua A	8.83
	20EI2E28 – Automotive Sensors			

ITEM No.6:

- It is resolved that the following Mandatory courses completed by the students in B.E. Electronics and Instrumentation Engineering degree programme be approved.

Batch: 2022 - 2026

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65

Batch: 2023 - 2027

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	68
2.	Allied Skills - Technical Certification	20MC275	68
3.	Machine Learning for IoT and Sensors	20EI1008	68

Batch: 2024 - 2028

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Machine Learning for IoT and Sensors	20EI1008	66
2.	Leadership and Excellence Development	20EI219	51
3.	Allied Skills Technical Certification	20MC275	66

ITEM No.7:

- It is resolved that the following students of B.E.EIE who have completed 4/6 weeks of internship/Inplant training be approved.

Batch: 2022 – 2026

Sl.no	Name of the Industry/Institution name	No. of Students Completed
1.	IIT Delhi	1
2.	National Institute of Technology, Tiruchirappalli	6
3.	National Institute of Technology, Calicut	3
4.	Cosmic ray laboratory, TIFR, Ooty	5
5.	Neyveli lignite corporation, Neyveli	6
6.	Titan Company Limited, Hosur	3
7.	Salzer electronics ltd, Coimbatore	23
8.	PRICOL Limited, Coimbatore	6
9.	Roots India Private Limited, Coimbatore	4
10.	Best engineering pumps Private Ltd, Coimbatore	3
11.	Aditya Pumps, Coimbatore	4
12.	Sri Sivasubramaniya Nadar College Of Engineering, Chennai	1
13.	S.M.Industries, Coimbatore	4
14.	Deccan industries, Coimbatore	4
15.	Edify techno solutions, Coimbatore	1
16.	AJ tech,Coimbatore	3
17.	Future Tech Engineering, Coimbatore	3
18.	Nexus automation solutions, Coimbatore	1
19.	ELGi Equipments limited, Coimbatore	1
20.	MAA Engineer, Coimbatore	2
21.	Ramson Colour Coaters, Coimbatore	1
22.	Integra Automation Pvt., Ltd.,Coimbatore	9
23.	Aquasub Engineering(Texmo), Coimbatore	1
24.	Deccan Karvel Pumps, Coimbatore	4
25.	Indoshell Cast Limited, Coimbatore	5
26.	Nextgen Instruments, Erode	4

Batch: 2023 – 2027

Sl.No	Name of the Industry/Institution name	No. of Students Completed
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1.	ISRO, Bengaluru	01
2.	National Institute of Technology, Tiruchirappalli	21
3.	Madras Institute of Technology, Chennai	17
4.	BHEL, Tiruchirappalli	2
5.	Salzer Electronics Limited, Coimbatore	4
6.	Cogent Automation Private Limited, Coimbatore	3
7.	Abi Engineering Erectors, Erode	3
8.	Mechmen Automation, Coimbatore	3
9.	Deccan Industries, Coimbatore	4
10.	AS Global Soft Tech, Coimbatore	5
11.	Jasch Gauging Technologies Ltd, Coimbatore	1
12.	Pricol Limited, Coimbatore	1
13.	SM Industries, Coimbatore	4
14.	Vtronics Automation, Coimbatore	1
15.	Hitaje Pump Division, Coimbatore	1
16.	Victory Engineering, Coimbatore	3

Suggestions/Comments from External Expert Members and University Nominee was recorded

Dr. P. Subha Karuvelam, University Nominee, provided the following observations and suggestions:

- The inclusion of the course 25IT2XXX Programming in Java was appreciated for its relevance to enhancing students' placement opportunities.
- The course content of 25EI2302 Power Electronics and Applications to be reduced because it is a 2 credit paper.
- The revised Program Educational Objectives (PEOs) were found to be well-structured and appropriate.
- Queries were raised regarding the introduction of the new laboratory course 25EI2370 Hardware Description Language Laboratory; the Chairperson of BoS justified its inclusion by highlighting its significance in electronics design tools and its value for placements.
- Clarification was sought on the assessment and delivery methods of the Skill Enhancement Course (SEC).
- The introduction of Industrial Instrumentation I and II was appreciated for effectively strengthening core concepts and helping students understand real-time industrial applications of various sensors.

Dr. Sukomal Dey, Subject Expert from IITs/NITs, provided the following observations and suggestions:

- The case studies included in the course 25EI2302 Power Electronics and Applications were appreciated for their quality and relevance.
- It was suggested to revise the title of the 7th experiment in 25EI2372 Process Dynamics and Control Laboratory.
- It was recommended to enhance Case Studies 1 and 2 in the course 25EI2323 Biomedical Instrumentation by incorporating at least 2–3 additional practical applications.
- For the elective course 25EI2326 Analytical Instrumentation, it was advised to verify the allotted number of hours.

Dr. B. Banu Rekha, Subject Expert from Government/Aided Colleges, provided the following observations and suggestions:

- 25EI2302 Power Electronics and Applications - Mentioning applications in Electric Vehicles (EV) would make the course appear relevant to our times.
- 25EI2286 Embedded and IoT Systems - Overall only one text book prescribed for IoT. Suggest an additional reference book on IoT.
- 25AI2XXX Artificial Intelligence for Instrumentation Engineers - Since the course is designed exclusively for Instrumentation Engineers, each unit/module should have a specific case study in Instrumentation. In the same course, it would be better if a text/reference book is added that discusses about AI in Instrumentation field.
- 25IT2XXX Programming in Java - The course outcomes appear generic (e.g. Java constructs to design efficient and maintainable solutions.). Mention the complex problems solving using JAVA.

Mr. Srikanth Gowtham, Industry Expert, provided the following observations and suggestions:

- It was suggested to consent department faculty member to frame questions on core engineering applications for Term Work (TW), Self-Learning (SL), and Case Study components for all the interdisciplinary courses.

- To provide soft skills training to students for enhancing communication, teamwork, and professional behavior and to equip students with essential interpersonal skills needed for career success and personal development.
- He also suggested to add new GenAI models to the course 25AI2XXX Artificial Intelligence for Instrumentation Engineers.

Mr. L.P.Ganesh, Meritorious Alumnus, provided the following observations and suggestions:

- The topic related to SPES Framework in the course 25EI2351 Model Based System Design with the reference to the following link shall be included.
 - <https://www.qualicen.de/getting-started-spes-system-modeling-framework/>
- He also suggested to integrate Python with AI/ML since it is the heart of integrating MBSE with Artificial Intelligence and Machine Learning.
- He insisted to look into SysML v2, because it is a new topic upcoming in industry to link system components with business processes modelled in BPMN, enabling better decision-making in the system architecture design process.

Name of the Member	Designation	Signature
Dr. R. Shanmugasundaram	Chairperson	<i>R. Shanmugasundaram</i> 27/10/24
Dr. P. Subha Karuvelam	University Nominee	Attended through online
Dr. Sukomal Dey	Subject Expert from IIT/NIT	Attended through online
Dr. B. Banu Rekha	Subject Expert from Other University	Attended through online
Mr. Srikanth Gowtham	Industry Representative	Attended through online
Mr. L. P. Ganesh	Meritorious Alumnus	Attended through online
Dr. B. Sharmila	Internal Member	<i>B. Sharmila</i> 27/10/24
Dr. V. Rukkumani	Coordinator & Internal Member	<i>V. Rukkumani</i> 27/10/24

Dr. D. Devasena	Internal Member	<i>[Signature]</i> 27/3
Dr. Y. Dharshan	Internal Member	<i>[Signature]</i> 27/3
Dr. M. Nagarajapandian	Internal Member	<i>M.N. [Signature]</i> 27/3/26
Dr. T. Anitha	Internal Member	<i>T. [Signature]</i> 27/3/26

[Signature]
27/3/26
CHAIRPERSON
BOARD OF STUDIES
Department of EIE



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 ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 28.03.2025 AT 10.00AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

The following members attended the above meeting.

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Chairman
Professor and Head,
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Leading Digital Engineering and Transformation,
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Tech Expert, Engineering Manager,
Bosch Global Software Technologies Pvt. Ltd.,
Hosur Road, Aduodi, Bengaluru,Karnataka-560 030
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Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.D.Devasena,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
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10. **Dr.M.Nagarajapandian**
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11. **Mrs.T.Anitha**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

12. **Dr.S.Sowmiya**
Internal Member,
Assistant Professor,
Department of Mathematics,
Sri Ramakrishna Engineering College, Coimbatore.

Dr.K.Srinivasan 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

The proposed Vision and Mission statements of both the Institution and the Department were presented and discussed. The members expressed their appreciation for the statements. As no further comments or suggestions were received, the statements were approved and accepted.

ITEM No.2

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

ITEM No.3

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

21st BOARD OF STUDIES MEETING

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent Professional / Open Elective in SREC Curriculum
1	Introduction to Industry 4.0 and Industrial Internet of Things	20EI2E05 Industrial Internet of Things	3	12 Weeks	33

ITEM No. 4:

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

ITEM No.5:

- It is resolved that the following candidates who have registered for additional credits during May/June 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.

Batch: 2021 – 2025

Specialization/Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E27 – Smart Factory	2106019	Keerthana E	9.00
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106025	Manoranjini P M	8.95
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106035	Raksha G K	9.00
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106037	Sabarisri S	8.50
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106040	Sarmitha S	8.75
	20EI2E28 – Automotive			

21st BOARD OF STUDIES MEETING

	Sensor			
Specialization	20EI2E27 – Smart Factory	2106034	Priyadharsini B	9.00
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106043	Sherlin Lincy A	9.00
	20EI2E28 – Automotive Sensor			
Specialization	20EI2E27 – Smart Factory	2106020	Kiruthika R	9.00
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Specialization	20EI2E27 – Smart Factory	2106047	Surya S P	8.67
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Specialization	20EI2E27 – Smart Factory	2106050	Thatchayeni M	8.50
	20EI2E28 – Automotive Sensor			
Minor	20EI2E27 – Smart Factory	2102044	Gouri K	9.00
	20EI2E28 – Automotive Sensor			

Batch: 2022 – 2026

Specialization/Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206004	Bharathi R	9.5
	20EI2E26 – Sensor Networks			
Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206005	Chinthana M	9.5

21st BOARD OF STUDIES MEETING

	20EI2E26 – Sensor Networks			
Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206009	Dharshini K P	8.5
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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206020	Ishwarya M	9.5
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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206043	Rithish S S	9.00
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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206049	Suraaj P R	8.50
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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206057	Darshan R	7.50
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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206060	Shelton Sampaul K	7.50
	20EI2E26 – Sensor Networks			
Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206064	Dinesh Kumar C	7.50
	20EI2E26 – Sensor Networks			
Minor	20EI2E25 – Biosensors and Wearable Sensors	2207006	Aravindh M S K	8.50
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207024	Jotika Harini A D	8.50
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207027	Kaviya Sree A	8.50

21st BOARD OF STUDIES MEETING

	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207040	Sabharish Aananth K S	8.00
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207042	Sam Joshua A	8.50
	20EI2E32 – Introduction to Smart Sensors			

ITEM No.6:

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

Batch: 2021 - 2025

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3.	Additional Courses- Employability and Enhancement Course (Career Development and Placement Division)	20MC291	65

Batch: 2022 - 2026

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3.	Machine Learning for IoT and Sensors	20EI1008	65

Batch: 2023 - 2027

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Machine Learning for IoT and Sensors	20EI1008	68
2.	Leadership and Excellence Development	20EI219	48

21st BOARD OF STUDIES MEETING

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. Electronics and Instrumentation Engineering degree programme.

Batch: 2021 – 2025

Sl.no	Name of the Industry	No. of Students Completed
1.	Tessolve Semiconductor Pvt. Ltd., Chennai	8
2.	Instrumentation Ltd, Pallakad	3
3.	Salzer Electronics, Coimbatore	12
4.	Sree Sakthi Engineering, Coimbatore	5
5.	ACC Cements, Coimbatore	4
6.	Roots Industries, Coimbatore	3
7.	Pumo Techno Automation, Hosur	1
8.	Tessolve Semiconductor Pvt. Ltd., Coimbatore	2
9.	Aditya Pumps, Coimbatore	1
10.	India Nippon Electrical, Hosur	6
11.	Tectzo Solution Pvt. Ltd., Coimbatore	3
12.	TNPL, Karur	1
13.	ARKTech Automation Solutions, Coimbatore	2
14.	Apple Metal, Coimbatore	2
15.	Moreind Automation, Coimbatore	3
16.	SM Industries, Coimbatore	4
17.	Sri Ranganathar Industries, Coimbatore	4
18.	MN Auto Products Pvt. Ltd., Coimbatore	1
19.	ACC Cements, Coimbatore	3
20.	Machenn Innovations pvt Ltd, Coimbatore	3
21.	Marvel Engineering, Coimbatore	5
22.	SEPC Power Pvt. Ltd., Thoothukudi	6
23.	Navinchandra & Co., Foundry, Coimbatore	6
24.	Mechnocraft Automation, Coimbatore	2
25.	Rane (Madras) Ltd., Pondicherry	1
26.	Seshasayee Paper and BoardsLtd., Erode	1
27.	Enthu Technology Solutions India Pvt. Ltd., Coimbatore	4
28.	Costal Energen Pvt. Ltd., Tuticorin	1
29.	Deccan Industries Pvt. Ltd., Coimbatore	7
30.	Ramesh Pumps, Coimbatore	5
31.	Green Microelectronics India Pvt, Ltd., Coimbatore	4
32.	Open Source Engineering Corporation, Coimbatore	3
33.	Orbits Automation, Coimbatore	2
34.	Matic Automation Technology, Coimbatore	1
35.	Krish Tec, Coimbatore	1

21st BOARD OF STUDIES MEETING

36.	Able Electronics Services, Coimbatore	1
37.	Sri Veera Engineering, Coimbatore	4
38.	Karvel Pumps, Coimbatore	5
39.	KG Denim Ltd., Coimbatore	1
40.	Edify Techno Solutions, Chennai	1
41.	KSB Pumps Ltd., Coimbatore	2

Batch: 2022 – 2026

Sl.no	Name of the Industry/Institution name	No. of Students Completed
1.	IIT Delhi	1
2.	National Institute of Technology, Tiruchirappalli	6
3.	National Institute of Technology, Calicut	3
4.	Cosmic ray laboratory, TIFR, Ooty	5
5.	Neyveli lignite corporation, Neyveli	6
6.	Titan Company Limited, Hosur	3
7.	Salzer electronics ltd, Coimbatore	9
8.	PRICOL Limited, Coimbatore	1
9.	Roots India Private Limited, Coimbatore	4
10.	Best engineering pumps Private Ltd, Coimbatore	3
11.	Aditya Pumps, Coimbatore	4
12.	Sri Sivasubramaniya Nadar College of Engineering, Chennai	1
13.	S.M.Industries, Coimbatore	4
14.	Deccan industries, Coimbatore	4
15.	Edify techno solutions, Coimbatore	1
16.	AJ tech, Coimbatore	3
17.	Future Tech Engineering, Coimbatore	3
18.	Nexus automation solutions, Coimbatore	1
19.	ELGi Equipments limited, Coimbatore	1
20.	MAA Engineer, Coimbatore	2

Batch: 2023 – 2027

Sl.no	Name of the Industry/Institution name	No. of Students Completed
1.	Madras Institute of Technology, Madras	11
2.	Vtronics Automation, Coimbatore	01
3.	Salem Steel Plant	01
4.	BSNL, Coimbatore	02
5.	Roots India Private Limited, Coimbatore	03

21st BOARD OF STUDIES MEETING

Suggestions/Comments from External Expert Members and University Nominee was recorded

Dr. P. Subha Karuvelam, University Nominee, provided the following observations and suggestions:

- Commended the Department's Vision and Mission statements, that they are well-aligned with those of the Institution.
- Recommended reviewing the flexibility offered to students in dropping courses. It was suggested to prepare a list of such courses after verifying prerequisite requirements.
- Proposed combining the components of term work and self-learning into a single component with a total weightage of 10 marks, rather than assigning separate weightages. It was also discussed that students should be required to complete either term work or self-learning to be eligible for the marks.
- Suggested the inclusion of Reciprocity Theorem and Maximum Power Transfer Theorem in both the theory and laboratory components of the Electric Circuits course.
- Recommended renaming the course Power Electronics and Drives to Power Electronics and its Applications, as the latter is more appropriate for the Electronics and Instrumentation Engineering (EIE) department.
- Advised splitting the course Transforms, Probability, Statistics and Numerical Methods into two separate courses of 2 credits each, to be offered in semesters III and IV respectively.
- Suggested conducting End Semester Examinations for Theory-cum-Laboratory courses to ensure comprehensive assessment.

Dr. Sukomal Dey, Subject Expert offered the following suggestions and observations:

- Recommended defining a clear nomenclature for the Gap Year concept to facilitate the assessment of student performance during this period. Additionally, it was suggested to assign a dedicated faculty mentor to monitor and support students undertaking a gap year.
- Advised applying for project funding through IEEE Undergraduate and Postgraduate Fellowships for third and final year students, to provide financial assistance for product development initiatives.
- Emphasized the need to establish clear rubrics for the evaluation of paper publications as part of the Mini Project and Final Year Project assessments.
- Suggested incorporating the fundamentals of Electromagnetic Field Theory into a suitable course in the curriculum, as it would benefit students planning to pursue higher education.

21st BOARD OF STUDIES MEETING

- Recommended formulating specific guidelines and norms for the allocation of faculty mentors to support multidisciplinary projects undertaken by third-year students.
- Appreciated the overall structure of the curriculum and the academic regulations in place.

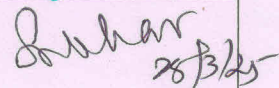
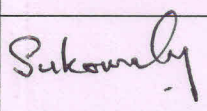
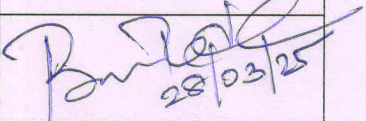
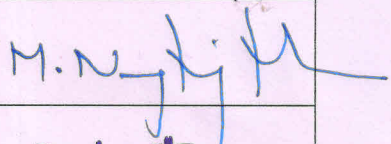
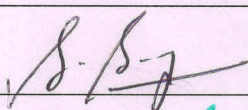
Dr. R. Banu Rekha, Subject Expert provided the following insights and recommendations:

- Suggested incorporating the term "Automation" into the Department's Mission statement to better reflect the department's focus and relevance to current industry trends.
- Enquired about the existing norms and policies regarding the dropping of courses by students.
- Recommended interchanging the courses Industrial Internet of Things and Embedded Systems between the 4th and 5th semesters for better curriculum flow and progression.
- Advised modifying the Raspberry Pi and Arduino-based experiments currently included in the Electrical Machines course to enhance relevance and applicability.
- Recommended providing a curated list of experiments available under the Virtual Lab platform that are specifically relevant to the Electronics and Instrumentation Engineering (EIE) department, to be integrated into the Basic Sciences Laboratory course.
- Suggested revising the course title Smart Factory to Industry 4.0, which is more aligned with contemporary industrial practices and terminology.

Mr. L. P. Ganesh, Alumni Expert shared the following suggestions and observations:

- Recommended including the term "Lifelong Learning" in the Department's Mission statement to emphasize the importance of continuous professional and personal development.
- Advised that students should be provided with comprehensive information regarding academic regulations during the induction programs to enhance awareness and preparedness.
- Enquired about the list of courses eligible for credit transfer through NPTEL and suggested making this information readily accessible to students.
- Suggested enhancing the Embedded Systems course by incorporating topics related to Microprocessor and Microcontroller Deployments, as well as Middleware technologies.
- Appreciated the department's efforts in encouraging students to present papers at IEEE conferences and recommended further motivating them to publish in reputed peer-reviewed journals.
- Proposed shifting one Ability Enhancement course from the 4th semester to the 3rd semester for better academic distribution and workload balance.

21st BOARD OF STUDIES MEETING

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr.P.Subha Karuvelam	University Nominee	
Dr.Sukomal Dey	Subject Expert from IISc/IITs/NITs	
Dr.B.Banu Rekha	Subject Expert from Government/Aided Organization	
Mr.Srikanth Gowtham	Industry Representative	- ABSENT -
Mr.L.P.Ganesh	Meritorious Alumnus	
Dr.V.Rukkumani	Coordinator & Internal Member	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	
Dr.S.Sowmiya	Internal Member	


CHAIRPERSON
BOARD OF STUDIES
Department of EIE



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 ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 28.03.2025 AT 10.00AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr.P.Subha Karuvelam**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Engineering,
Tirunelveli- 627007
3. **Dr.Sukomal Dey**
Subject Expert from IISc/IITs/NIITs,
Associate Professor,
Department of Electrical Engineering
IIT Palakkad,Kanjicode
Palakkad, Kerala-678623
4. **Dr.B.Banu Rekha**
Subject Expert from Government/Aided Organization,
Associate Professor,
Department of Biomedical Engineering,
PSG College of Technology, Coimbatore-641004

5. **Mr.Srikanth Gowtham**
Industry Representative
Associate group Manager,
Leading Digital Engineering and Transformation,
Voya India, Bangaluru,Karnataka-560045
6. **Mr.L.P.Ganesh**
Meritorious Alumnus,
Tech Expert, Engineering Manager,
Bosch Global Software Technologies Pvt. Ltd.,
Hosur Road, Aduodi, Bengaluru,Karnataka-560 030
7. **Dr.V.Rukkumani,**
Coordinator &Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.D.Devasena,**
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Dr.K.Srinivasan 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.

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21st BOARD OF STUDIES MEETING

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21st BOARD OF STUDIES MEETING

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Specialization	20EI2E25 – Biosensors and Wearable Sensors	2206064	Dinesh Kumar C	7.50
	20EI2E26 – Sensor Networks			
Minor	20EI2E25 – Biosensors and Wearable Sensors	2207006	Aravindh M S K	8.50
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207024	Jotika Harini A D	8.50
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207027	Kaviya Sree A	8.50

21st BOARD OF STUDIES MEETING

	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207040	Sabharish Aananth K S	8.00
	20EI2E32 – Introduction to Smart Sensors			
Minor	20EI2E27 – Smart Factory	2207042	Sam Joshua A	8.50
	20EI2E32 – Introduction to Smart Sensors			

ITEM No.6:

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

Batch: 2021 - 2025

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3.	Additional Courses- Employability and Enhancement Course (Career Development and Placement Division)	20MC291	65

Batch: 2022 - 2026

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3.	Machine Learning for IoT and Sensors	20EI1008	65

Batch: 2023 - 2027

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Machine Learning for IoT and Sensors	20EI1008	68
2.	Leadership and Excellence Development	20EI219	48

21st BOARD OF STUDIES MEETING

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. Electronics and Instrumentation Engineering degree programme.

Batch: 2021 – 2025

Sl.no	Name of the Industry	No. of Students Completed
1.	Tessolve Semiconductor Pvt. Ltd., Chennai	8
2.	Instrumentation Ltd, Pallakad	3
3.	Salzer Electronics, Coimbatore	12
4.	Sree Sakthi Engineering, Coimbatore	5
5.	ACC Cements, Coimbatore	4
6.	Roots Industries, Coimbatore	3
7.	Pumo Techno Automation, Hosur	1
8.	Tessolve Semiconductor Pvt. Ltd., Coimbatore	2
9.	Aditya Pumps, Coimbatore	1
10.	India Nippon Electrical, Hosur	6
11.	Tectzo Solution Pvt. Ltd., Coimbatore	3
12.	TNPL, Karur	1
13.	ARKTech Automation Solutions, Coimbatore	2
14.	Apple Metal, Coimbatore	2
15.	Moreind Automation, Coimbatore	3
16.	SM Industries, Coimbatore	4
17.	Sri Ranganathar Industries, Coimbatore	4
18.	MN Auto Products Pvt. Ltd., Coimbatore	1
19.	ACC Cements, Coimbatore	3
20.	Machenn Innovations pvt Ltd, Coimbatore	3
21.	Marvel Engineering, Coimbatore	5
22.	SEPC Power Pvt. Ltd., Thoothukudi	6
23.	Navinchandra & Co., Foundry, Coimbatore	6
24.	Mechnocraft Automation, Coimbatore	2
25.	Rane (Madras) Ltd., Pondicherry	1
26.	Seshasayee Paper and BoardsLtd., Erode	1
27.	Enthu Technology Solutions India Pvt. Ltd., Coimbatore	4
28.	Costal Energen Pvt. Ltd., Tuticorin	1
29.	Deccan Industries Pvt. Ltd., Coimbatore	7
30.	Ramesh Pumps, Coimbatore	5
31.	Green Microelectronics India Pvt, Ltd., Coimbatore	4
32.	Open Source Engineering Corporation, Coimbatore	3
33.	Orbits Automation, Coimbatore	2
34.	Matic Automation Technology, Coimbatore	1
35.	Krish Tec, Coimbatore	1

21st BOARD OF STUDIES MEETING

36.	Able Electronics Services, Coimbatore	1
37.	Sri Veera Engineering, Coimbatore	4
38.	Karvel Pumps, Coimbatore	5
39.	KG Denim Ltd., Coimbatore	1
40.	Edify Techno Solutions, Chennai	1
41.	KSB Pumps Ltd., Coimbatore	2

Batch: 2022 – 2026

Sl.no	Name of the Industry/Institution name	No. of Students Completed
1.	IIT Delhi	1
2.	National Institute of Technology, Tiruchirappalli	6
3.	National Institute of Technology, Calicut	3
4.	Cosmic ray laboratory, TIFR, Ooty	5
5.	Neyveli lignite corporation, Neyveli	6
6.	Titan Company Limited, Hosur	3
7.	Salzer electronics ltd, Coimbatore	9
8.	PRICOL Limited, Coimbatore	1
9.	Roots India Private Limited, Coimbatore	4
10.	Best engineering pumps Private Ltd, Coimbatore	3
11.	Aditya Pumps, Coimbatore	4
12.	Sri Sivasubramaniya Nadar College of Engineering, Chennai	1
13.	S.M.Industries, Coimbatore	4
14.	Deccan industries, Coimbatore	4
15.	Edify techno solutions, Coimbatore	1
16.	AJ tech, Coimbatore	3
17.	Future Tech Engineering, Coimbatore	3
18.	Nexus automation solutions, Coimbatore	1
19.	ELGi Equipments limited, Coimbatore	1
20.	MAA Engineer, Coimbatore	2

Batch: 2023 – 2027

Sl.no	Name of the Industry/Institution name	No. of Students Completed
1.	Madras Institute of Technology, Madras	11
2.	Vtronics Automation, Coimbatore	01
3.	Salem Steel Plant	01
4.	BSNL, Coimbatore	02
5.	Roots India Private Limited, Coimbatore	03

21st BOARD OF STUDIES MEETING

Suggestions/Comments from External Expert Members and University Nominee was recorded

Dr. P. Subha Karuvelam, University Nominee, provided the following observations and suggestions:

- Commended the Department's Vision and Mission statements, that they are well-aligned with those of the Institution.
- Recommended reviewing the flexibility offered to students in dropping courses. It was suggested to prepare a list of such courses after verifying prerequisite requirements.
- Proposed combining the components of term work and self-learning into a single component with a total weightage of 10 marks, rather than assigning separate weightages. It was also discussed that students should be required to complete either term work or self-learning to be eligible for the marks.
- Suggested the inclusion of Reciprocity Theorem and Maximum Power Transfer Theorem in both the theory and laboratory components of the Electric Circuits course.
- Recommended renaming the course Power Electronics and Drives to Power Electronics and its Applications, as the latter is more appropriate for the Electronics and Instrumentation Engineering (EIE) department.
- Advised splitting the course Transforms, Probability, Statistics and Numerical Methods into two separate courses of 2 credits each, to be offered in semesters III and IV respectively.
- Suggested conducting End Semester Examinations for Theory-cum-Laboratory courses to ensure comprehensive assessment.

Dr. Sukomal Dey, Subject Expert offered the following suggestions and observations:

- Recommended defining a clear nomenclature for the Gap Year concept to facilitate the assessment of student performance during this period. Additionally, it was suggested to assign a dedicated faculty mentor to monitor and support students undertaking a gap year.
- Advised applying for project funding through IEEE Undergraduate and Postgraduate Fellowships for third and final year students, to provide financial assistance for product development initiatives.
- Emphasized the need to establish clear rubrics for the evaluation of paper publications as part of the Mini Project and Final Year Project assessments.
- Suggested incorporating the fundamentals of Electromagnetic Field Theory into a suitable course in the curriculum, as it would benefit students planning to pursue higher education.

21st BOARD OF STUDIES MEETING

- Recommended formulating specific guidelines and norms for the allocation of faculty mentors to support multidisciplinary projects undertaken by third-year students.
- Appreciated the overall structure of the curriculum and the academic regulations in place.

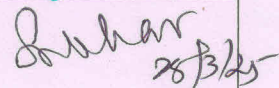
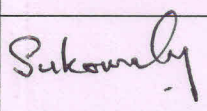
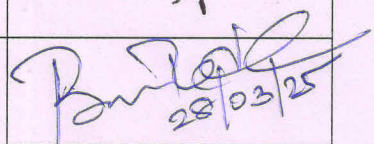
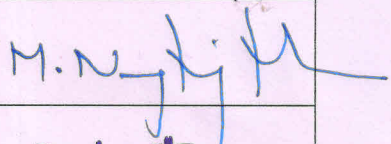
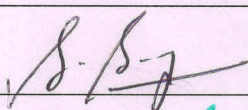
Dr. R. Banu Rekha, Subject Expert provided the following insights and recommendations:

- Suggested incorporating the term "Automation" into the Department's Mission statement to better reflect the department's focus and relevance to current industry trends.
- Enquired about the existing norms and policies regarding the dropping of courses by students.
- Recommended interchanging the courses Industrial Internet of Things and Embedded Systems between the 4th and 5th semesters for better curriculum flow and progression.
- Advised modifying the Raspberry Pi and Arduino-based experiments currently included in the Electrical Machines course to enhance relevance and applicability.
- Recommended providing a curated list of experiments available under the Virtual Lab platform that are specifically relevant to the Electronics and Instrumentation Engineering (EIE) department, to be integrated into the Basic Sciences Laboratory course.
- Suggested revising the course title Smart Factory to Industry 4.0, which is more aligned with contemporary industrial practices and terminology.

Mr. L. P. Ganesh, Alumni Expert shared the following suggestions and observations:

- Recommended including the term "Lifelong Learning" in the Department's Mission statement to emphasize the importance of continuous professional and personal development.
- Advised that students should be provided with comprehensive information regarding academic regulations during the induction programs to enhance awareness and preparedness.
- Enquired about the list of courses eligible for credit transfer through NPTEL and suggested making this information readily accessible to students.
- Suggested enhancing the Embedded Systems course by incorporating topics related to Microprocessor and Microcontroller Deployments, as well as Middleware technologies.
- Appreciated the department's efforts in encouraging students to present papers at IEEE conferences and recommended further motivating them to publish in reputed peer-reviewed journals.
- Proposed shifting one Ability Enhancement course from the 4th semester to the 3rd semester for better academic distribution and workload balance.

21st BOARD OF STUDIES MEETING

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr.P.Subha Karuvelam	University Nominee	
Dr.Sukomal Dey	Subject Expert from IISc/IITs/NITs	
Dr.B.Banu Rekha	Subject Expert from Government/Aided Organization	
Mr.Srikanth Gowtham	Industry Representative	- ABSENT -
Mr.L.P.Ganesh	Meritorious Alumnus	
Dr.V.Rukkumani	Coordinator & Internal Member	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	
Dr.S.Sowmiya	Internal Member	


CHAIRPERSON
BOARD OF STUDIES
Department of EIE



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
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 15.11.2024 AT
11.30AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr.P.Subha Karuvelam**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Engineering,
Tirunelveli- 627007
3. **Dr.Sukomal Dey**
Subject Expert from IISc/IITs/NIITs,
Associate Professor,
Department of Electrical Engineering
IIT Palakkad,Kanjicode
Palakkad, Kerala-678623
4. **Dr.B.Banu Rekha**
Subject Expert from Government/Aided Organization,
Associate Professor,
Department of Biomedical Engineering,
PSG College of Technology, Coimbatore-641004

5. **Mr.Srikanth Gowtham**
Industry Representative
Associate group Manager,
Leading Digital Engineering and Transformation,
Voya India, Bangaluru,Karnataka-560045
6. **Mr.L.P.Ganesh**
Meritorious Alumnus(2001-2005 Batch),
Tech Expert, Engineering Manager,
Bosch Global Software Technologies Pvt. Ltd.,
Hosur Road, Adugodi, Bengaluru,Karnataka-560 030
7. **Dr.V.Rukkumani,**
Coordinator &Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.D.Devasena,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.M.Nagarajapandian**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Mrs.T.Anitha**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

20th BOARD OF STUDIES MEETING

Dr.K.Srinivasan 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

The proposed vision and mission of the institution were discussed, and members were invited to share their comments.

ITEM No.2

- 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.
- 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

PROFESSIONAL ELECTIVES COURSES

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

COURSE CODE	COURSE TITLE	L	T	P	C
Professional Electives					
20EI2E36	Computer Control of Processes	3	0	0	3
20EI2E37	Biomedical Image Processing	3	0	0	3

ITEM No. 4:

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

20th BOARD OF STUDIES MEETING

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent Professional / Open Elective in SREC Curriculum	No. of Students Beneficiaries
1	noc20_cs69/preview	Introduction to Industry 4.0 and Industrial Internet of Things	3	12 Weeks	20EI2E05 Industrial Internet of Things	42
2	noc19_ee40/preview	Fabrication Techniques for MEMS based Sensors: Clinical	3	12 Weeks	20EI2E08 Multi Sensor Data Fusion	01

ITEM No. 5:

- It is resolved that the Result Analysis for the Academic Year 2023 - 2024 (Semesters VIII / VI/ IV) are approved and passed.

ITEM No.6:

- It is resolved that the following candidates who have registered for additional credits during May/June 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/ Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E27 Smart Factory 20EI2E28 Automotive Sensor	2106019	Keerthana E	8.75
		2106025	Manoranjini P M	9.00
		2106035	Raksha G K	9.00
		2106037	Sabarisri S	8.25
		2106040	Sarmitha S	8.75
		2106034	Priyadharsini B	9.00
		2106043	Sherlin Lincy A	7.8
		2106020	Kiruthika R	9.00
		2106030	Nandhanaa K S	9.00
		2106051	Trinetraa K	9.00
		2106012	Ishvarya M	8.00
		2106048	Suthicsha R	8.25
		2106046	Surjath Fathima K	8.00
		2106047	Surya S P	8.75
		2106050	Thatchayeni M	7.14

20th BOARD OF STUDIES MEETING

Minor	20EI2E27 Smart Factory 20EI2E28 Automotive Sensor	2102044	Gouri K	9.00
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ITEM No.7:

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

Batch: 2021 - 2025

S.No.	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3	Additional Courses Employability and Enhancement Course (Career Development and Placement Division)	20MC291	65

Batch: 2022 – 2026

S.No.	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3	Additional Courses Employability and Enhancement Course (Career Development and Placement Division)	20MC291	Undergoing

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. Electronics and Instrumentation Engineering** degree Programme.

Batch: 2021 – 2025

Sl.No.	Name of the Industry	No. of Students Completed
1.	Tessolve Semiconductor Pvt. Ltd., Chennai	8
2.	Instrumentation Ltd, Pallakad	3
3.	Salzer Electronics, Coimbatore	12
4.	Sree Sakthi Engineering, Coimbatore	5
5.	ACC Cements, Coimbatore	4
6.	Roots Industries, Coimbatore	3
7.	Pumo Techno Automation, Hosur	1
8.	Tessolve Semiconductor Pvt. Ltd., Coimbatore	2
9.	Aditya Pumps, Coimbatore	1
10.	India Nippon Electrical, Hosur	6
11.	Tectzo Solution Pvt. Ltd., Coimbatore	3
12.	TNPL, Karur	1
13.	ARKTech Automation Solutions, Coimbatore	2
14.	Apple Metal, Coimbatore	2
15.	Moreind Automation, Coimbatore	3
16.	SM Industries, Coimbatore	4
17.	Sri Ranganathar Industries, Coimbatore	4
18.	MN Auto Products Pvt. Ltd., Coimbatore	1
19.	ACC Cements, Coimbatore	3
20.	Machenn Innovations pvt Ltd, Coimbatore	3
21.	Marvel Engineering, Coimbatore	5
22.	SEPC Power Pvt. Ltd., Thoothukudi	6
23.	Navinchandra & Co., Foundry, Coimbatore	6
24.	Mechnocraft Automation, Coimbatore	2
25.	Rane (Madras) Ltd., Pondicherry	1
26.	Seshasayee Paper and BoardsLtd., Erode	1
27.	Enthu Technology Solutions India Pvt. Ltd., Coimbatore	4
28.	Costal Energen Pvt. Ltd., Tuticorin	1
29.	Deccan Industries Pvt. Ltd., Coimbatore	7
30.	Ramesh Pumps, Coimbatore	5
31.	Green Microelectronics India Pvt, Ltd., Coimbatore	4
32.	Open Source Engineering Corporation, Coimbatore	3
33.	Orbits Automation, Coimbatore	2
34.	Matic Automation Technology, Coimbatore	1
35.	Krish Tec, Coimbatore	1
36.	Able Electronics Services, Coimbatore	1
37.	Sri Veera Engineering, Coimbatore	4
38.	Karvel Pumps, Coimbatore	5
39.	KG Denim Ltd., Coimbatore	1
40.	Edify Techno Solutions, Chennai	1
41.	KSB Pumps Ltd., Coimbatore	2

Batch: 2022 – 2026

Sl.No.	Name of the Industry/Institution name	No. of Students Completed
1.	IIT Delhi	1
2.	National Institute of Technology, Tiruchirappalli	6
3.	National Institute of Technology, Calicut	3
4.	Cosmic ray laboratory, TIFR, Ooty	5
5.	Neyveli lignite corporation, Neyveli	6
6.	Titan Company Limited, Hosur	3
7.	Salzer electronics ltd, Coimbatore	9
8.	PRICOL Limited, Coimbatore	1
9.	Roots India Private Limited, Coimbatore	4
10.	Best engineering pumps Private Ltd, Coimbatore	3
11.	Aditya Pumps, Coimbatore	4
12.	Sri Sivasubramaniya Nadar College of Engineering, Chennai	1
13.	S.M.Industries, Coimbatore	4
14.	Deccan industries, Coimbatore	4
15.	Edify techno solutions, Coimbatore	1
16.	AJ tech, Coimbatore	3
17.	Future Tech Engineering, Coimbatore	3
18.	Nexus automation solutions, Coimbatore	1
19.	ELGi Equipments limited, Coimbatore	1
20.	MAA Engineer, Coimbatore	2

Suggestions/Comments from External Expert Members and University Nominee was recorded

➤ **Dr.P.Subha Karuvelam, University Nominee**

- Appreciated the Vision and Mission statements of the institution.
- Recommended incorporating skill development courses offered by the National Skill Training Institute, Chennai, that align with the department courses.

➤ **Dr.Sukomal Dey, Subject Expert**

- Recommended incorporating case studies on industrial processes in the Computer Control of Processes course.

- Suggested adding topics on frequency and time domain analysis of signals, along with multiplier algorithms for image reconstruction, to the Biomedical Image Processing course.
- Enquired about the assessment criteria and time intervals for Miniproject I and II.

➤ **Dr.R.Banu Rekha, Subject Expert**

- Recommended including the word "engineering" either before "education" or "professionals" in the Mission 1 statement
- Proposed to include the book "Introduction to Process Control", By Jose A. Romagnoli, Ahmet Palazoglu, CRC Press, 2020 for the course Computer Control of Process and suggested incorporating the latest textbooks and reference materials for all courses.
- Suggested conducting awareness sessions on higher education and its opportunities to emphasize the significance of pursuing higher studies in engineering.

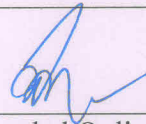
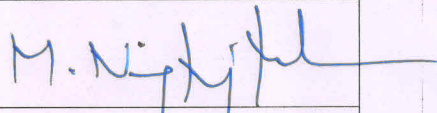
➤ **Mr.Srikanth Gowtham, Industry Representative**

- Recommended introducing courses on Fundamentals of Computing, Elements of AI, Data Science, Python, and JAVA to enhance placement opportunities for students in product-based industries.
- Suggested incorporating topics related to PLC, DCS, *and* SCADA systems to strengthen core opportunities in the field of instrumentation.

➤ **Mr.L.P.Ganesh, Alumni Expert**

- Appreciated the use of the latest software tools in instrumentation and electronics for enhancing core skills and improving placement opportunities.
- Recommended including advanced image processing algorithms in the Biomedical Image Processing course.

20th BOARD OF STUDIES MEETING

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr.P.Subha Karuvelam	University Nominee	Attended Online
Dr.Sukomal Dey	Subject Expert (from IISc/IITs/NITs)	Attended Online
Dr.B.Banu Rekha	Subject Expert (from Government/Aided Organization)	Attended Online
Mr.Srikanth Gowtham	Industry Representative	Attended Online
Mr.L.P.Ganesh	Meritorious Alumnus	Attended Online
Dr.V.Rukkumani	Coordinator & Internal Member	
Dr.D.Devasena	Internal Member	
Dr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	


CHAIRPERSON
BOARD OF STUDIES
Department of EIE



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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**MINUTES OF THE 19th BOARD OF STUDIES MEETING FOR THE UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 28.03.2024 AT 11.30
AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION
ENGINEERING**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Engineering,
Bodinayakkanur-625582
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Senior Manager
FLSmith Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Chennai -600 127
6. **Mr.I.Aswin Kumar**
Alumni Expert,
Android Developer,
Zoho Corporation Ltd.,
Bengaluru
7. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Dr.M.Nagarajapandian**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

19th BOARD OF STUDIES MEETING

Dr.K.Srinivasan 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 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.
- 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

PROFESSIONAL ELECTIVES & ONE CREDIT COURSE

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

COURSE CODE	COURSE TITLE	L	T	P	C
Professional Electives					
20EI2E34	Network Automation for Instrumentation Engineers	3	0	0	3
20EI2E35	Machine Learning for Industrial Control System	3	0	0	3
Industrial One Credit Course					
20EII008	Machine Learning for IoT and Sensors	0	0	2	1

ITEM No. 3:

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

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent Professional / Open Elective in SREC Curriculum
1	noc24-ee01	Neural Science for Engineers	3	12 Weeks	20EI2E19 Bio-Inspired

19th BOARD OF STUDIES MEETING

					Computational Techniques
2	noc24-ee68	Embedded Sensing, Actuation and Interfacing Systems	3	12 Weeks	20EI2E08 Multi Sensor Data Fusion
3	noc24-ee29	CMOS Digital VLSI Design	3	12 Weeks	20EI2E02 ASIC and FPGA Design Techniques

ITEM No. 4:

- It is resolved that the Result Analysis for the Academic Year 2023 – 2024 (Semesters VII / V/ III) are discussed and passed.

ITEM No. 5:

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

Specialization/Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E27 Smart Factory	2106019	Keerthana E	8.35
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106025	Manoranjini P M	8.43
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106035	Raksha G K	8.55
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106037	Sabarisri S	8.08
	20EI2E28 Automotive sensors			

19th BOARD OF STUDIES MEETING

Specialization	20EI2E27 Smart Factory	2106040	Sarmitha S	9.05
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106034	Priyadharsini B	8.05
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106043	Sherlin Lincy A	8.0
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106020	Kiruthika R	7.95
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106030	Nandhanaa K S	8.61
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106051	Trinetraa K	8.6
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106012	Ishvarya M	7.51
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106048	Suthicsha R	7.41
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106046	Surjath Fathima K	7.24
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106047	Surya S P	7.95
	20EI2E28 Automotive sensors			
Specialization	20EI2E27 Smart Factory	2106050	Thatchayeni M	-
	20EI2E28 Automotive sensors			

19th BOARD OF STUDIES MEETING

Minor	20EI2E27 Smart Factory	2102044	Gouri K	8.3
	20EI2E28 Automotive sensors			

ITEM No.6

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

Batch: 2020 - 2024

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	63
2.	Allied Skills - Technical Certification	20MC275	62

Batch: 2021 - 2025

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Personality and Character Development	20MC201	65
2.	Allied Skills - Technical Certification	20MC275	65
3.	Additional Courses- Employability and Enhancement Course (Career Development and Placement Division)	20MC291	Undergoing

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. Electronics and Instrumentation** degree programme

Batch: 2020 – 2024

S.No	Industry	No. of Students Completed
1.	Healthcare Technology Innovation Centre(HTIC), IIT Madras	2
2.	Universiti Teknologi Petronas(UTP), Malaysia	6
3.	FLSmith Private Limited, Chennai	4
4.	Yashika Industries, Chennai	2
5.	Salzer Electronics Limited, Coimbatore	3
6.	LITZ Technology, Coimbatore	3
7.	Axis Global Automation, Coimbatore	4
8.	KGSL Industries, Coimbatore	6
9.	Vasantha Advanced Systems, Coimbatore	4
10.	Sortier Feeding Systems, Coimbatore	5
11.	Beta Circuits Systems, Bangalore	3
12.	Innovate Engineering Products, Hosur	6
13.	Amoga Pumps, Coimbatore	1
14.	Best Engineers Pumps Private Limited, Coimbatore	4
15.	Petfila, AICTE Idea Lab, Coimbatore	1
16.	Jenesis Controls India Private Limited, Coimbatore	5
17.	Magnetic and Controls, Coimbatore	1
18.	Kwang Sung Brake India Private Limited, Kancheepuram	1
19.	Sri Kaveri Silk Mills, Coimbatore	2

Batch: 2021 - 2025

S.No	Industry	No. of Students Completed
1.	Instrumentation Ltd, Pallakad	3
2.	Roots Industries India Ltd., Coimbatore	2
3.	Tessolve Semiconductor Pvt. Ltd., Chennai	4
4.	Rane (Madras) Ltd., Pondicherry	1
5.	Salzer Electronics Ltd., Coimbatore	10
6.	SEPC Power Pvt. Ltd., Tuticorin	1
7.	Seshasayee Paper and BoardsLtd., Erode	1
8.	Indian Nippon Electricals Ltd., Hosur	1
9.	Enthu Technology Solutions India Pvt. Ltd., Coimbatore	4
10.	Costal Energen Pvt. Ltd., Tuticorin	1
11.	Deccan Industries Pvt. Ltd., Coimbatore	7
12.	Ramesh Pumps, Coimbatore	5
13.	Green Microelectronics India Pvt, Ltd., Coimbatore	4
14.	Open Source Engineering Corporation, Coimbatore	3
15.	Orbits Automation, Coimbatore	2
16.	Matic Automation Technology, Coimbatore	1
17.	Krish Tec, Coimbatore	1
18.	Able Electronics Services, Coimbatore	1
19.	Sri Veera Engineering, Coimbatore	4
20.	Karvel Pumps, Coimbatore	5
21.	KG Denim Ltd., Coimbatore	1

22.	Edify Techno Solutions, Chennai	1
23.	KSB Pumps Ltd., Coimbatore	2

ITEM No.8

- Suggestions/Comments from External Expert Members and University Nominee are recorded
- **Sujatha Balaraman, University Nominee Suggested**
- Case studies can be included for the course “20EI2E34 Network Automation for Instrumentation Engineers”
 - Module II “Data Preprocessing” and Module III “Fundamentals of Machine Learning” in the Course “20EI2E35 Machine Learning for Industrial Control System” can be swapped for better understanding to the students.
 - Suggested to use to Google Board and Gemini AI for Analytical subjects.
 - To include the Missing data and Time series data handling contents for the Course “20EI2E35 Machine Learning for Industrial Control System”
 - Methods for collecting sensor data in IoT environments topic can be included in the One Credit Course “20EII008 Machine Learning for IoT and Sensors”
 - Deep learning architectures: Neural networks, convolutional neural networks topics can be included in the One Credit Course “20EII008 Machine Learning for IoT and Sensors”

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- To include Infrastructure Testing and Validation topic in the course “20EI2E34 Network Automation for Instrumentation Engineers”
- Enquired about scripting language topic in the course “20EI2E34 Network Automation for Instrumentation Engineers”
- Suggested to have inventory management tools in the course “20EI2E34 Network Automation for Instrumentation Engineers”
- To include “Battery Management system and Energy storage devices” based courses in the future upcoming Regulation
- Transfer learning topic can be included in the one credit course “20EII008 Machine Learning for IoT and Sensors”
- Application of regression and classification models can be included in the course “20EI2E35 Machine Learning for Industrial Control System”
- Number of Modules can be reduced for the course “20EI2E35 Machine Learning for Industrial Control System”

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- Suggested to include Architecture with Actuators and Controllers and Typical ICs Architecture topic in “20EI2E34 Network Automation for Instrumentation Engineers” course.
- Data processing, collection of data and protocols used topics can be included in the “20EI2E34 Network Automation for Instrumentation Engineers” course
- Predictive, Preventive analysis and Condition Monitoring can be included in the “20EI2E35 Machine Learning for Industrial Control System” course.
- Optimization topics can be included for the course “20EI2E34 Network Automation for Instrumentation Engineers”
- Algorithms for identifying anomalies in Sensor data's and Application of deep learning techniques can be included in the One Credit course “20EI2E08 Machine Learning for IoT and Sensors”
- Remote Monitoring management tools can be included in “20EI2E34 Network Automation for Instrumentation Engineers” course.

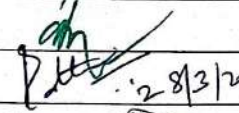
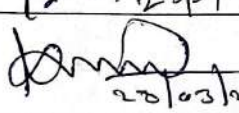
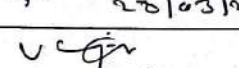
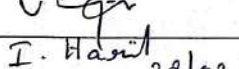
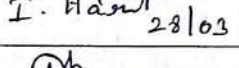
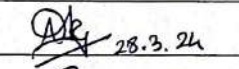
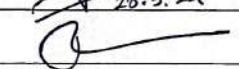
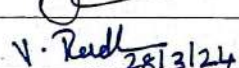
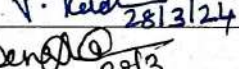
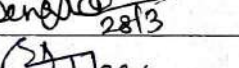
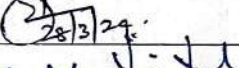
➤ **Dr.I.Hariharan, Subject Expert Suggested**

- Data acquisition and preprocessing techniques for Industrial Control System can be included for the course 20EI2E35 Machine Learning for Industrial Control System”
- Automated file transfer to FTP Server or SFTP Server concepts can be included in 20EI2E34 Network Automation for Instrumentation Engineers” course.
- Case Studies can be included in the Elective courses.

➤ **Mr.I.Aswin Kumar, Alumni Expert suggested**

- Suggested to include Transfer Learning in the One Credit Course “20EII008 Machine Learning for IoT and Sensors”
- Open Source UML Tools can be included in the One Credit Courses
- Data Normalization in Machine Learning can included in One Credit Course “20EII008 Machine Learning for IoT and Sensors”

19th BOARD OF STUDIES MEETING

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	 28/3/2024
Dr.V.Karthikeyan	Expert from Central Government Research Labs	 28/03/24
Mr.R.Vasiraj	Industry Expert	 28/03/2024
Dr.I.Hariharan	Subject Expert from Other University	 28/03/2024
Mr.I.Aswin Kumar	Alumni Member	 28.3.24
Dr.V.Rukkumani	Internal Member	 28/3/24
Dr.V.Radhika	Internal Member & Coordinator	 28/3/24
Dr.D.Devasena	Internal Member	 28/3
Mr.Y.Dharshan	Internal Member	 28/3/24
Dr.M.Nagarajapandian	Internal Member	 28/3/24
Mrs.T.Anitha	Internal Member	 28/3/24


CHAIRPERSON
BOARD OF STUDIES
Department of EIE



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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

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**MINUTES OF THE 18th BOARD OF STUDIES MEETING FOR THE UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 17.11.2023 AT 11.00
AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Engineering,
Bodinayakkanur-625582
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmith Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.I.Aswin Kumar**
Alumni Expert,
Android Devloper,
Zoho Corporation Ltd.,
Bengaluru
7. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
10. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
12. **Dr.M.Nagarajapandian**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

13. Mrs.T.Anitha

Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan 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.
- 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**PROFESSIONAL ELECTIVES & ONE CREDIT COURSES**

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

COURSE CODE	COURSE TITLE	L	T	P	C
Professional Electives					
20EI2E33	Testing and Measurement System	2	0	1	3
20EI2E34	Remote Sensing and Graphical Information System	3	0	0	3

18th BOARD OF STUDIES MEETING

ITEM No. 3:

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

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent Professional / Open Elective in SREC Curriculum
1	noc23-ee109	Fabrication Techniques For MEMS Based System	3	12 Weeks	20EI2E08 Multisensor Data Fusion
2	noc23-mg98	Industrial Safety Engineering	3	12 Weeks	20EI2E16 Industrial Safety
3	noc23-ee137	VLSI Design Flow:RTL to GDS	3	12 Weeks	20EI2E02 ASIC and FPGA Design Techniques
4	noc23-ee87	Machine Learning And Deep Learning Fundamental And Application	3	12 Weeks	20EI2E09 Embedded Machine Learning

ITEM No. 4:

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

18th BOARD OF STUDIES MEETING

ITEM No.5

- 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/Minor Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106019	Keerthana E	8.29
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106025	Manoranjini P M	8.33
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106035	Raksha G K	8.39
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106037	Sabarisri S	7.92
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106040	Sarmitha S	8.98
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106034	Priyadharsini B	7.91
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106043	Sherlin Lincy A	7.8
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106020	Kiruthika R	7.84
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106030	Nandhanaa K S	8.52

18th BOARD OF STUDIES MEETING

	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106051	Trinetraa K	8.38
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106012	Ishvarya M	7.39
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106048	Suthiesha R	7.28
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106046	Surjath Fathima K	7.21
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106047	Surya S P	7.85
	20EI2E26 - Sensor Networks			
Specialization	20EI2E25 - Biosensors and Wearable Sensors	2106050	Thatchayeni M	0
	20EI2E26 - Sensor Networks			
Minor	20EI2E25 - Biosensors and Wearable Sensors	2102044	Gouri K	0
	20EI2E32- Introduction to Smart Sensors			

ITEM No.6

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

➤ Sujatha Balaraman, University Nominee Suggested

- Module I title shall be revised as “Fundamentals of Measurement system” in the Test measurement system course.

- Enquired about credit and conduct hours for Fundamentals of Measurement system Theory cum Laboratory course
- Suggested to have only maximum of 3 text books for each course.
- Module IV title shall be revised as “Integrated Applications” for Remote Sensing and Geographical Information System course.
- Contents in the Module IV for the course Remote Sensing and Geographical Information System can be revised with topics like “Applications in Traffic management and Resource management”.

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- Enquired about the experiments in the course Test Measurement System course.
- To have parallel monitoring of environmental sensor system with different sensors for each batch of students.
- To have recent publications as text books for each course.

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To include the topic “Role of scientific research in Industries” and review on “Calibration techniques” in the course Test measurement system.
- Evolution of Technology for Remote sensing and Global Information System can be included in the course Remote Sensing and Geographical Information System.

18th BOARD OF STUDIES MEETING

➤ **Dr.I.Hariharan, Subject Expert Suggested**

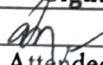
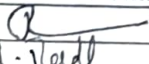
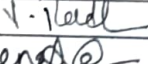
- To include the topic “Fundamentals and Purpose of Test Measurement System” in the course Test measurement system.
- “Image Enhancement concepts” can be included in the Remote Sensing and Geographical Information System course

➤ **Mr.I.Aswin Kumar, Alumni Expert suggested**

- “Map projections and its types” in the module III and “Location based services” in the Module IV for can be included for the course Remote Sensing and Geographical Information System

➤ **ITEM No.7**

- Approval for the closure of M.E (Control and Instrumentation) programme from the Academic Year 2024-2025 onwards

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	Attended Online
Dr.V.Karthikeyan	Expert from Central Government Research Labs	Attended Online
Mr.R.Vasiraj	Expert from Industry	Attended Online
Dr.I.Hariharan	Subject Expert from Other University	Attended Online
Mr.I.Aswin Kumar	Alumni Member	Attended Online
Dr.V.Rukkumani	Internal Member	
Dr.V.Radhika	Internal Member & Coordinator	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	

Chairman
Board of Studies

CHAIRPERSON
BOARD OF STUDIES
Department of EIE

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Social1,048

Updates9,229

Forums5,291

Promotions5,763

More

Labels

Declaration form48

DLC Presentation5

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Fwd: SREC-EIE- BoS Minutes- Reg

Inbox x

Dr. K. Srinivasan HOD-EIE

to me

----- Forwarded message -----

From: Vasiraj Rajendran <Vasiraj.Rajendran@flsmidth.com>

Date: Fri, Nov 24, 2023 at 10:34 AM

Subject: RE: SREC-EIE- BoS Minutes- Reg

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Dear Sir,

Please correct as 'Evolution' instead of Evaluation.. 'Evolution of technology'

Rest others are okay. Approved and pl. proceed

Regards,

Vasiraj

From: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Sent: Friday, November 24, 2023 10:21 AM

To: Vasiraj Rajendran <Vasiraj.Rajendran@flsmidth.com>

https://mail.google.com/mail/u/0/#inbox/FMfcgzGwJJcWIRKbHBMcnMMKWxlTSgrM

1/1

**SREC**

Radhika Senthil <radhika.senthil@srec.ac.in>

Fwd: Invitation from an unknown sender: (No Subject) @ Fri 17 Nov 2023 10:45am - 11:45am (IST) (aswincgak05@gmail.com)

1 message

Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>
To: Radhika Senthil <radhika.senthil@srec.ac.in>

Tue, Dec 19, 2023 at 8:45 AM

----- Forwarded message -----

From: **Aswin Kumar** <aswincgak05@gmail.com>

Date: Tue, 19 Dec, 2023, 8:10 AM

Subject: Re: Invitation from an unknown sender: (No Subject) @ Fri 17 Nov 2023 10:45am - 11:45am (IST)
(aswincgak05@gmail.com)

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

BOS minutes approved

On Thu, Nov 16, 2023, 10:28 AM Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in> wrote:

Unknown sender

This event from hod-eie@srec.ac.in won't appear in your calendar unless you say that you know the sender.

[Know this sender?](#)

Join with Google Meet

Meeting link

meet.google.com/mth-zhyu-wgd

Join by phone

(US) [+1 860-540-6164](tel:+18605406164)

PIN: 313675236

[More phone numbers](#)

SREC-EIE- 18th BoS Meeting

When

Friday 17 Nov 2023 · 10:45am – 11:45am (India Standard Time - Kolkata)

Guests

Dr. K. Srinivasan HOD-EIE- organiser

karthikeyan@nitc.ac.in

Rukkumani.V

sujathaeeee@gct.ac.in

Nagarajapandian M

Radhika Senthil

Anitha Thilakar

aswincgak05@gmail.com

hariharan.i@vit.ac.in

Devasena Mohan

dharshan y

vasiraj.rajendran@flsmidth.com

[View all guest info](#)

Reply for aswincgak05@gmail.com

Yes

No

Maybe

More options

Invitation from [Google Calendar](#)

You are receiving this email because you are subscribed to Calendar notifications. To stop receiving these emails, go to [Calendar settings](#), select this calendar and change 'Other notifications'.

Forwarding this invitation could allow any recipient to send a response to the organiser, be added to the guest list, invite others regardless of their own invitation status or modify your RSVP. [Learn more](#)

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99+

Mail

Chat

Spaces

Meet

Compose

Inbox13,545

Starred

Snoozed

Important

Sent

Drafts626

Categories

Social1,048

Updates9,229

Forums5,291

Promotions5,763

More

Labels

Declaration form48

DLC Presentation5

Search in mail

Fwd: SREC- EIE - BoS Minutes - Reg

Inbox x

Dr. K. Srinivasan HOD-EIE

to me

----- Forwarded message -----

From: **Karthikeyan V** <karthikeyan@nitc.ac.in>

Date: Sat, Nov 25, 2023 at 10:32 AM

Subject: Re: SREC- EIE - BoS Minutes - Reg

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Approved for the same,

Thank you

On Fri, Nov 24, 2023 at 10:19 AM Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in> wrote:

Dear Sir

Greetings from SREC!!

Thank you for attending as a central government nominee member and providing your valuable comments in t department , Sri Ramakrishna Engineering College,Coimbatore on 17.11.2023 through online mode. Herewith we a PG, Kindly provide the approval for the same.

--

https://mail.google.com/mail/u/0/#inbox/FMfcgzGwJJcWIRKkLmhmgXMXbSLHxqkC

1/1



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Mail

Inbox 13,546

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Snoozed

Important

Sent

Drafts 626

Categories

Social 1,048

Updates 9,229

Forums 5,291

Promotions	5,763
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More

Labels

Declaration form 48

DLC Presentation 5

Fwd: SREC-EIE -BoS Minutes- Reg

Inbox x



Dr. K. Srinivasan HOD-EIE
to me

2

----- Forwarded message -----

From: Hariharan I <hariharan.i@vit.ac.in>

Date: Fri, Nov 24, 2023 at 4:52 PM

Subject: Re: SREC-EIE -BoS Minutes- Reg

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Dear Sir,

I have checked the BoS minutes. I approve of the same.

Thanks,
Hariharan i
7200703007

On Fri, Nov 24, 2023 at 10:21 AM Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in> wrote:
Dear Sir

99+

Mail

Chat

Spaces

Meet

Compose

Inbox

13,547

Starred

Snoozed

Important

Sent

Drafts

626

Categories

Social

1,048

Updates

9,229

Forums

5,291

Promotions

5,763

More

Labels

Declaration form

48

DLC Presentation

5

Search in mail

to me

----- Forwarded message -----

From: **Sujatha Balaraman** <sujathaeeee@gct.ac.in>

Date: Fri, Nov 24, 2023 at 3:08 PM

Subject: Re: SREC- EIE - BoS Minutes- Reg

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Dear SIr,

I have gone through the minutes of the 18th Board of Studies meeting and hereby approved the same.

With regards,

Dr.Sujatha Balaraman,
Professor/EEE Dept.,
Govt. College of TEngineering,
Bodinayakkanur-625582

On Fri, Nov 24, 2023 at 10:18 AM Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in> wrote:

Dear Madam

Greetings from SREC!!

Thank you for attending and providing valuable comments in the 18th BoS meeting of the EIE department , Sr College,Coimbatore on 17.11.2023 through online mode. Herewith we are attaching the BoS minutes of UG and PG same.

https://mail.google.com/mail/u/0/#inbox/FMfcgzGwJJcWIRKRBJzmCijVsPgqNXWW

1/1



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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

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

**MINUTES OF THE 13th BOARD OF STUDIES MEETING FOR THE PG
CONTROL AND INSTRUMENTATION PROGRAMME HELD ON 17.11.2023 AT 11.00 AM
IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmith Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.I.Aswin Kumar**
Alumni Expert,
Android Devloper,
Zoho Corporation Ltd.,
Bengaluru
7. **Dr.V.Rukkumani.**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
10. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

13th BOARD OF STUDIES MEETING

12. Dr.M.Nagarajapandian

Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

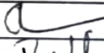
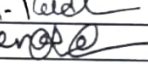
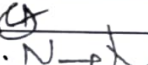
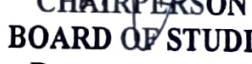
13. Mrs.T.Anitha

Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 13th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1

- Approval for the closure of M.E (Control and Instrumentation) programme from the Academic Year 2024-2025 onwards

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	Attended Online
Dr.V.Karthikeyan	Expert from Central Government Research Labs	Attended Online
Mr.R.Vasiraj	Expert from Industry	Attended Online
Dr.I.Hariharan	Subject Expert from Other University	Attended Online
Mr.I.Aswin Kumar	Alumni Member	Attended Online
Dr.V.Rukkumani	Internal Member	
Dr.V.Radhika	Internal Member & Coordinator	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	

Chairman
Board of Studies

CHAIRPERSON
BOARD OF STUDIES
Department of EIE



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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**MINUTES OF THE 13th BOARD OF STUDIES MEETING FOR THE PG
CONTROL AND INSTRUMENTATION PROGRAMME HELD ON 17.11.2023 AT 11.00 AM
IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmith Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.I.Aswin Kumar**
Alumni Expert,
Android Devloper,
Zoho Corporation Ltd.,
Bengaluru
7. **Dr.V.Rukkumani.**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
10. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

13th BOARD OF STUDIES MEETING

12. Dr.M.Nagarajapandian

Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

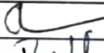
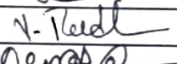
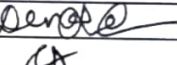
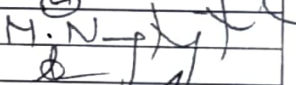
13. Mrs.T.Anitha

Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 13th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.1

- Approval for the closure of M.E (Control and Instrumentation) programme from the Academic Year 2024-2025 onwards

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	Attended Online
Dr.V.Karthikeyan	Expert from Central Government Research Labs	Attended Online
Mr.R.Vasiraj	Expert from Industry	Attended Online
Dr.I.Hariharan	Subject Expert from Other University	Attended Online
Mr.I.Aswin Kumar	Alumni Member	Attended Online
Dr.V.Rukkumani	Internal Member	
Dr.V.Radhika	Internal Member & Coordinator	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Dr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	

Chairman
Board of Studies

CHAIRPERSON
BOARD OF STUDIES
Department of EIE



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MINUTES OF THE 12th BOARD OF STUDIES MEETING FOR THE PG CONTROL AND INSTRUMENTATION PROGRAMME HELD ON 21.04.2023 AT 3.30 PM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmidth Pvt Ltd.,

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.I.Aswin Kumar**
Alumni Expert,
Android Devloper,
Zoho Corporation Ltd.,
Bengaluru
7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,

12th BOARD OF STUDIES MEETING

12. Mr.M.Nagarajapandian

Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

13. Mrs.T.Anitha

Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 12th 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 the PG Regulations 2022 will be followed for the students admitted from academic year 2022-2023 onwards.

ITEM No.2

- It is resolved that the curriculum structure for the M.E./M.Tech programme as recommended by the 17th Academic Council be approved.

S.No	Category	Credits
1	Professional Core	30
2	Professional Elective	15
3	Humanities and Sciences	4
4	Employability Enhancement Course	21

ITEM No.3

- It is resolved that the new Curriculum and syllabi for be approved under Regulations R2022 for PG programmes

ITEM No.4

- It is resolved that the 22EI1E01 Industrial Internet of Things Professional Elective course is converted to Professional Core 22EI1204 Industrial Internet of Things

ITEM No.5

- It is resolved that the following new Professional Elective courses under Regulations R2022 be approved and passed

COURSE CODE	COURSE TITLE	CREDIT
20EI1E07	Cyber Physical System	3
20EI1E08	Safety Instrumentation System	3
20EI1E09	Robotics and Control	3

ITEM No.6

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

➤ **Dr.Sujatha Balaraman, University Nominee Suggested**

- To include the usage of standard in different engineering applications
- To include Hybrid position force control in Robotics and Control course

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

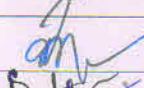
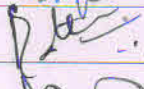
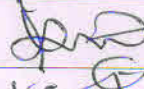
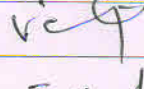
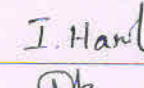
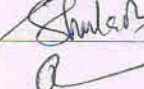
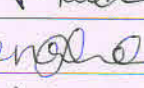
- To include Automotive Ethernet and CPS Performance Analysis contents in Cyber Physical system course

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To include microprocessor and PLC based system in Safety Instrumentation System course

➤ **Dr.I.Hariharan, Subject Expert Suggested**

- To include linear control schemes in Robust and Control course
- To include Network congestion in Cyber Physical System Course

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	 04/4/2023
Dr.V.Karthikeyan	Expert from Central Government Research Labs	
Mr.R.Vasiraj	Expert from Industry	
Dr.I.Hariharan	Subject Expert from Other University	
Mr.I.Aswin Kumar	Alumni Member	
Dr.B.Sharmila	Internal Member	
Dr. V.Rukkumani	Internal Member	
Dr. V.Radhika	Internal Member & Coordinator	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Mr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	


CHAIRPERSON
BOARD OF STUDIES
 Department of EIE

Chairman
Board of Studies



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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**MINUTES OF THE 17th BOARD OF STUDIES MEETING FOR THE UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 21.04.2023 AT 02.30
PM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
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3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
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4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmith Pvt Ltd.,
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5. **Dr. I.Hariharan**
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6. **Mr.I.Aswin Kumar**
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Zoho Corporation Ltd.,
Bengaluru
7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

11. Mr.Y.Dharshan,

Internal Member,

Assistant Professor (Sl.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore.

12. Mrs.M.Nagarajapandian

Internal Member,

Assistant Professor (Sl.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore

13. Mrs.T.Anitha

Internal Member,

Assistant Professor (Sr.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan 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.
- 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

PROFESSIONAL ELECTIVES & ONE CREDIT COURSES

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

17th BOARD OF STUDIES MEETING

COURSE CODE	COURSE TITLE	CREDIT
Professional Electives		
20EI2E23	Green Electronics	3
20EI2E24	Brain Computer Interface and Its Applications	3
20EI2E25	Bio Optical Instrumentation	3
One Credit Courses		
COURSE CODE	COURSE TITLE	OFFERING INDUSTRY
20EI1007	Industrial Cyber Security	LTTS Bangalore

ITEM No. 3:

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

S.No	NPTEL Course Code	NPTEL Course Title	Credits	Course Duration	Equivalent Professional / Open Elective in SREC Curriculum
1	noc22-cs95	Introduction to Industry 4.0 and Industrial Internet Of Things	3	12 Weeks	20EI2E05 Industrial Internet of Things
2	noc23-cs05	An Introduction to Artificial Intelligence	3	12 Weeks	20EI2E09 Embedded Machine Learning
3	noc23-ee66	Sensors and Actuators	3	12 Weeks	20EI2E08 Multisensor Data Fusion

ITEM No. 4:

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

ITEM No.5

- It is resolved that the Sensor Technology Honors Specialization / minor be approved in B.E. Electronics and Instrumentation Engineering programme

ITEM No.6

- 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.7

- 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.
 1. Heritage of Tamils
 2. Tamils and Technology

ITEM No.8

- Suggestions/Comments from External Expert Members and University Nominee to be recorded
- **Dr.Sujatha Balaraman, University Nominee Suggested**
 - To include Indian Regulation to handle hazardous substances can be included in the Green Electronics course
 - Appreciated the students completed credit transfer through NPTEL course
 - To arrange field training for the students from IV semester onwards
 - To use Blooms Taxonomy while framing the Course Outcomes(COs)

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- To include the techniques for data storage and analysis with therapeutic equipment's in Bio Optical Instrumentation course
- To include Gadget utilized for medical applications in Bio Optical Instrumentation course
- To purchase the advance sensors for Specialization Courses for explaining the concepts of Sensor Technology
- Appreciated the syllabus and contents of newly introduced Tamil Liberal Arts course
- To use E-Books and Journals for the Sensor Technology Specialization courses

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To include Prevention of hacking process in industrial process, Transient Cyber Asset and Protected Cyber Asset (PCA) topics in Industrial Cyber Security One Credit course
- Appreciated the NPTEL credit transfer done by the students for different elective courses
- To give hands on training with advance PLCs and sensors to the students
- To undergo internships in automation and sensors based industries

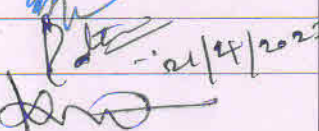
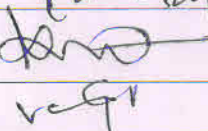
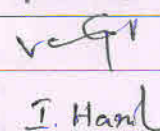
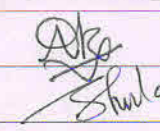
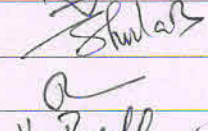
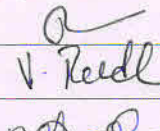
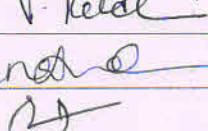
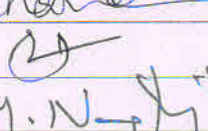
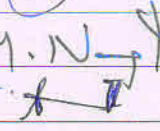
➤ **Dr.I.Hariharan, Subject expert Suggested**

- Feature extraction methods and Machine Learning for BCI can be included in Bio optical Instrumentation course
- To use latest edition text books and reference books in the syllabus

➤ **Mr. I. Aswin Kumar, Alumni Expert Suggested**

- Comparison between present and past methods of handling e-waste can be added in Green Electronics course
- To have Android Development and App development courses as Value Addition course to the students from IV semester onwards
- Latest App based integrated with machine learning algorithms topics can be included in appropriate courses
- To do field projects in core industry for the Sensor Technology specialization students

17th BOARD OF STUDIES MEETING

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	 - 21/4/2023
Dr.V.Karthikeyan	Expert from Central Government Research Labs	
Mr.R.Vasiraj	Expert from Industry	
Dr.I.Hariharan	Subject Expert from Other University	
Mr.I.Aswin Kumar	Alumni Member	
Dr.B.Sharmila	Internal Member	
Dr.V.Rukkumani	Internal Member	
Dr.V.Radhika	Internal Member & Coordinator	
Dr.D.Devasena	Internal Member	
Mr.Y.Dharshan	Internal Member	
Mr.M.Nagarajapandian	Internal Member	
Mrs.T.Anitha	Internal Member	


CHAIRPERSON
BOARD OF STUDIES
Department of EIE

Chairman
Board of Studies



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 UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 10.12.2022 AT 10.00
AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmidth Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.K.Zaheer Sheriff**
Alumni Expert,
Senior Chief Manager,
Samsung Electronics,
Bengaluru
7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G).
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

11. Mr.Y.Dharshan,
Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

12. Mrs.T.Anitha
Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan 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

R2020

- 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.
- 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

PROFESSIONAL ELECTIVES

- It is resolved that the syllabi for the following new Professional Elective courses , Open Electives &One Credit courses under Regulations 2020 be approved and passed.

COURSE CODE	COURSE TITLE	CREDIT
Professional Electives		
20EI2E18	20EI2E18 Smart and Wireless Instrumentation	3

16th BOARD OF STUDIES MEETING

20E12E19	Bio-Inspired Computation Techniques	3
20E12E20	Instrumentation in Agriculture and Food Processing Industries	3
20E12E21	Robotic Process Automation	3
Open Electives		
20E12E22	Flexible and Wearable Sensors	3
One Credit Courses		
COURSE CODE	COURSE TITLE	OFFERING INDUSTRY
20EII006	Principles of Robotic Sensors	Mukkudal Robotics, Coimbatore

ITEM No. 3:

- It is resolved that the curriculum and syllabi be approved for the Specialization / minor in degree programme

S.No	Course Code	Course Title	Credits	Mode of Delivery	Offered by
1	20EIS06	Environmental Sensors for Building Automation	3	Class / NPTEL	SREC

ITEM No. 4:

- It is resolved that the Result Analysis for the Academic Year 2021 – 2022 are approved and passed.
- It is resolved that the Degree awarded details for the Academic Year 2021 – 2022 are approved and passed.
- It is resolved that the Revised Uniform Evaluation Method of students based on Relative grading, as per communication received from Anna University, Chennai be approved and passed.

ITEM No.5**UNIFORM EVALUATION METHOD OF STUDENTS BASED ON RELATIVE GRADING**

- A few excerpts from Regulation 2021 of B.E/ B. Tech Programmes of Non - Autonomous Colleges affiliated to Anna University is given below. The same shall be adopted for all the UG/PG students following from academic year 2021-2022 onwards studying in University Departments and Autonomous Colleges of Anna University.

Procedure for Awarding Marks for Internal Assessment

- For all the theory courses, laboratory courses, theory course with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below.,

Theory Courses:

ASSESSMENT I (100 Marks)		ASSESSMENT II (100 Marks)		Total Internal Assessment
Individual Assignment/ Case study/ Seminar/ Mini Project/ any other experiential learning	Written Test	Individual Assignment/ Case study/ Seminar/ Mini Project/ any other experiential learning	Written Test	
40	60	40	60	200*

** The weighted average shall be converted into 40 marks for internal assessment*

Laboratory Courses:

- The maximum marks for internal assessment shall be 60 marks incase of practical courses. Every practical exercise/ experiment shall be evaluated based on conduct of experiments/exercise and records are to be maintained. There shall be at least one test. The criteria for arriving at the internal assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks)*	
Evaluation of Laboratory observation, record	Test
75	25

* Internal assessment marks shall be converted into 60 marks

Theory Courses with Laboratory Component/ Laboratory Theory Courses With Theory Component

- Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table.

L	T	P	C	Internal		End Semester examination
				Assessment 1	Assessment 2	
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory 25%
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory 15%
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory 35%

* The weighted average shall be converted into 50 marks or internal assessment

Project Work / Internship and Laboratory Theory Courses

- For the Project Work / Internship and Laboratory Courses fixed grading procedure shall be followed.

Passing Requirement

- A student who secures not less than 50% of total marks prescribed for the course (internal assessment+ end semester university examination) with a minimum of 45% of marks prescribed for the end semester examination, shall be declared to have passed the course and acquire the

relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

- If a student fails to secure a pass in a theory course/ laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + end semester examination), then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the university end semester examinations alone.

Award of Letter Grades

The award of letter grades Will be dedeed based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, Reappearance (U) shall be awarded as shown in the below Table.

For those students who have passed the course, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. For a given course, if the students' strength to greater than 30, the relative grading method shall be adopted. However, if the students' strength IS less than or equal to 30 then the fixed grading shall be followed With the grade range as specified below.

O	A+	A	B+	B	C	U
91 - 100	81 -90	71 -80	61 - 70	56 – 60	50-55	< 50

The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:

Letter Grade	Grade Points•
O (Outstanding)	10

A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Re-appearance)	-
SA (Shortage of Attendance)	-
WD (Withdrawal)	-

- A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B", "C"
- 'SA' denotes shortage of attendance and hence prevented from writing the end semester examinations. 'SA' will appear only in the result sheet.
- "U" denotes that the student has failed to pass in that course. "WD" denotes withdrawal from the exam for the particular course. The grades U and WD will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations.
- If the grade U is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements, but has to appear for the end semester examination and fulfil the passing requirements to earn a pass in the respective courses.
- If the grade U is given to EEC (Employability Enhancement Course) (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfill the passing requirements to earn pass in the course. However, attendance requirement need not be satisfied.

Classification of the Degree Awarded

First Class with Distinction

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- Should have passed the examination in all the courses of all the eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) in the student's First Appearance within five years (Six years in the case of Mechanical (Sandwich) and Four years in the case of Lateral Entry). Withdrawal from examination will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50.
- One year authorized break of study (if availed of) is included in the five years (Six years in the case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

First Class:

A student who satisfies the following conditions shall be declared to have passed the examination in First class:

- Should have passed the examination in all the courses of all eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) within five years. (Six years in case of Mechanical (Sandwich) and Four years in the case of Lateral Entry).
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (Six years in case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than 6.50.

Second Class:

All other students who qualify for the award of the degree shall be declared to have passed the examination in Second Class. The corresponding specific changes are to be made to B.Arch. / M.Arch. / M.Plan. / MBA / M.Sc.(5years).

ITEM No.6

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 for students admitted in the Academic year 2020 & onwards.

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.

The following specialization / minors are proposed from 2021 – 2022 and onwards.

S. No	Under Graduate Engineering Programme	Name of the Specialization / Minor Degree	Permitted to Offer
1	Mechanical Engineering	Robotics	Specialization
2	Electrical & Electronics Engineering	Electric Vehicles	Specialization
3	Electronics & Communication Engineering	Internet of Things (IoT)	Specialization Minor
4	Electronics & Instrumentation Engineering	Sensors Technology	Specialization Minor
5	Computer Science & Engineering	Artificial Intelligence and Machine Learning	Specialization Minor
		Cyber Security	Specialization
		Data Science	Minor
		Virtual & Augmented Reality	Specialization
6	Civil Engineering	Green Technology	Specialization

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
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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 verticals of the same programme	7.50	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	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 passes 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.

ITEM No.7

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

➤ **Sujatha Balaraman, University Nominee Suggested**

- Title and Syllabus contents can be revisited for Industrial One Credit courses
- Enquired about credit transfer for NPTEL courses and course delivery methods for Sensor Technology Specialization courses.

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- Building automation sensors and topics related to controllers can be added in specialization courses.
- To include topics related to air quality control in the specialization course

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To include visualization tools, Power BI, Predictive model, Data Analytics concepts can be included in the professional elective courses.
- To include App based topics in Robotic Process Automation

➤ **Dr.I.Hariharan, Subject Expert Suggested**

- To include automation concepts in agriculture and food processing industries
- To have Energy Harvesting techniques and battery life calculation in Smart and Wireless Instrumentation Course

➤ **Mr.K.Zaheer Sheriff, Alumni Expert suggested**

- To include hybrid algorithms in bio inspired computational algorithms
- Predictive modeling in automation as a separate course in Professional Elective

➤ **General Comments**

- Arrange field training for Specialization students before the VI semester in the core industries beyond the curriculum frame work
- Suggested to make the students to do field projects in the area of sensor technology and automation for real time problems
- Suggested to provide hands on experience in the area of sensor technology


CHAIRPERSON
BOARD OF STUDIES
Department of EIE

Chairman
Board of Studies

**SREC**

Radhika Senthil <radhika.senthil@srec.ac.in>

Fwd: BoS minute approval

Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>
To: Radhika Senthil <radhika.senthil@srec.ac.in>

Wed, Jan 11, 2023 at 6:31 AM

----- Forwarded message -----

From: **Sujatha Balaraman** <sujathaeeee@gct.ac.in>
Date: Tue, 10 Jan, 2023, 10:46 PM
Subject: Re: BoS minute approval
To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Sir,
Warm greetings from Dr.Sujatha Balaraman, Professor,
EEE department of Government College of Technology,
Coimbatore. Received the Board of Studies minutes of
UG and PG programmes held on 10.12.2022 in virtual
mode and hereby approved the same for further
necessary action.

On Tue, Jan 10, 2023, 10:44 PM Sujatha Balaraman <sujathaeeee@gct.ac.in> wrote:
Sir,

Warm greetings from Dr.Sujatha Balaraman, Professor, EEE department of Government College of Technology,
Coimbatore. Received the Board of Studies minutes of UG and PG programmes held on 0.12.2022 in virtual
mode and hereby approved the same for further necessary action.

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Chairman
Board of Studies



Compose

Inbox

11/20/23

Starred

Quoted

Flagged

All

Info

Unread/Starred

More



Dr. K. Srinivasan HOD-EIE

to me

Wed, Jan 11, 11:27 AM (21 hrs)

----- Forwarded message -----

From: **Karthikeyan V** <karthikeyan@nile.ac.in>

Date: Wed, Jan 11, 2023 at 11:10 AM

Subject: Fwd: SREC-EIE- Minutes Approval-Reg

To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Dear Sir,

The attached document of Minutes of Meeting regarding the Board of studies held on December 10th, 2022 is approve

Thank you.

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to v

Chairman
Board of Studies



Radhika Senthil <radhika.senthil@srec.ac.in>

SREC-EIE-BoS Minutes-Approval-Reg

Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>
To: Radhika Senthil <radhika.senthil@srec.ac.in>

Tue, Jan 10, 2023 at 4:58 PM

----- Forwarded message -----

From: **Vasiraj Rajendran** <Vasiraj.Rajendran@flsmidth.com>
Date: Mon, Jan 9, 2023 at 4:22 PM
Subject: SREC-EIE-BoS Minutes-Approval-Reg
To: Dr. K. Srinivasan HOD-EIE <hod-eie@srec.ac.in>

Dear Sir,

The attached minutes of meeting is approved from my end for the UG and PG courses of E&I department of Sri Ramakrishna Engineering College, Coimbatore.

Thanks and Regards,
Vasiraj

--

With regards,

Dr.K.Srinivasan
Professor and Head
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College
Coimbatore - 22
Mobile: 9994131400

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2 attachments

2022 BOS MINUTES PG.doc
82K

2022 BOS MINUTES UG.doc
258K

A handwritten signature in blue ink, appearing to be 'Dr. K. Srinivasan', is written over the signature block.

Chairman
Board of Studies

M

Compose

Inbox 1307

Drafts

Outbox

Important

Sent

Drafts 852

Categories

More

Signatures 43

PDF Presentation 1

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----- Forwarded message -----

From: Hariharan I <hariharan.i@vit.ac.in>

Date: Wed, Jan 11, 2023 at 9:20 AM

Subject: Fw: SREC-EIE-BoS Minutes- Approval - Reg

To: hod-eie@srec.ac.in <hod-eie@srec.ac.in>

Dear Sir,

I have looked at the BoS Minutes and I am satisfied. Please proceed further sir.

Thanks,

Hariharan I

7200703007



Chairman
Board of Studies

To: <hod_eie@srec.ac.in>

Dear Dr.Srinivasan(HOD-EIE),

I hereby acknowledge the meeting held on December 10-2022, Board of studies program for both UG-Electronics and Engineering and PG- Control and Instrumentation Engineering.

Further, I am honoured to approve the contents(syllabus,credit score, practicals, Extra Curricular Courses) captured in recommend to Department of EIE staff and HOD to materialize the same in coming months.

Would thank all the staff members of Dept EIE in giving me this wonderful opportunity to be part of Board of Studies pr appreciate the efforts taken by all staff members and Professor's for effectively conducting the meet and marking it suc

PFA

Thanks & Regards
Zaheer Sheriff K
(batch 2005-2009)
Senior Chief Engineer



Chairman
Board of Studies



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 11th BOARD OF STUDIES MEETING FOR THE PG
CONTROL AND INSTRUMENTATION PROGRAMME HELD ON 10.12.2022 AT 11.00 AM
IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmith Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mr.K.Zaheer Sheriff**
Alumni Expert
Senior Chief Manager,
Samsung Electronics,
Bengaluru
7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

12. Mrs.T.Anitha

Internal Member,

Assistant Professor (Sr.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore

Dr.K.Srinivasan Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 11th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed

ITEM No.1**Regulation 2022 and Curriculum**

- It is resolved that the PG Regulations 2022 will be followed for the students admitted from academic year 2022-2023 onwards
- It is resolved that the curriculum and syllabi under Regulations 2020 be approved for the categories of PC/EEC/HS/ PE of M.E. Control and Instrumentation Engineering

Suggestion by expert members on Regulations, Curriculum, various Courses and Electives.

➤ **Sujatha Balaraman, University Nominee Suggested**

- To include patent drafting and copyright drafting system concepts in the Research Methodology course
- Include only the reference books in the syllabus

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- To include regression models and bagging , boosting concepts in the Process data analytics course
- To include safety instrumentation concepts in Advanced Instrumentation Systems Course
- Reframe the Smart Sensors and Automation System Laboratory contents

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To have CAN, LIN and flex ray communication protocols and multi sensor data fusion concepts in the syllabus
- To include R algorithm concepts in the Big data analytics course

➤ **Dr.I.Hariharan, Subject Expert Suggested**

- To include the credits and reframe the contents of the Audit course
- To include the applications and security concepts in the Industrial Internet of Things course



**CHAIRPERSON
BOARD OF STUDIES
Department of EIE**

**Chairman
Board of Studies**



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**MINUTES OF THE 15th BOARD OF STUDIES MEETING FOR THE UG
ELECTRONICS AND INSTRUMENTATION PROGRAMME HELD ON 26.02.2022 AT 11.00
AM IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
Coimbatore-641 013
3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
Department of Electrical Engineering
National Institute of Technology
Calicut
Kerala – 673 601
4. **Mr.R.Vasiraj**
Industry Expert
Deputy Manager
FLSmidth Pvt Ltd.,
Chennai-603 103

5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
Vellore-632 104
6. **Mrs.B.Miruthula**
Alumni Expert,
Senior Project Manager,
Soliton Technologies Pvt. Ltd.,
Coimbatore-641013
7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

12. Mr.S.Kaushik,

Internal Member,

Assistant Professor (Sr.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore

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

ITEM No.I**Regulation 2020 and Curriculum**

- 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

ITEM No.II**New Professional and Open Elective**

- It is resolved that the syllabi for the new professional and open elective courses under Regulations 2020 be approved and passed.

Professional Electives

20EIXXX Product Design and Development

20EIXXX Industrial Safety

Open Elective

20EIXXX Pollution Control and Engineering

ITEM No.III**New one credit courses**

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

Industrial Pneumatics

Industry: Janatics India Pvt. Ltd., Coimbatore

New Liberal Arts course

- It is resolved that the following new Liberal arts courses will be included under Regulations 2020 for B.E. Electronics and Instrumentation Engineering programme.

Leadership Excellence and Development offered by Rabbit Tortoise Ltd., Coimbatore

ITEM No.IV**Specialization / Minor degree programme**

- It is resolved that the curriculum and syllabi be approved for the Specialization / Minor in degree programme

Specialization / Minor degree programme

S.No	Course Code	Course Title	Credits	Mode of Delivery	Offered by
1	20EIXXX	Smart Factory	3	Class / NPTEL	SREC / Industry
2	20EIXXX	Biosensors and Wearable Sensors	3	Class / NPTEL	SREC / Industry
3	20EIXXX	Automotive Sensors	3	Class / NPTEL	SREC / Industry
4	20EIXXX	Sensor Networks	3	Class / NPTEL	SREC / Industry
5	20EIXXX	Sensor Data Analytics	3	Class / NPTEL	SREC / Industry
6	20EIXXX	Industry 4.0	3	Class / NPTEL	SREC / Industry

Minor degree programme

S.No	Course Code	Course Title	Credits	Mode of Delivery	Offered by
1	20EIXXX	Introduction to Smart Sensors	3	Class / NPTEL	SREC / Industry

ITEM No.V

- 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.

**ITEM No.VI
R2016**

- 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 upto 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.

15th BOARD OF STUDIES MEETING

ITEM No.VII

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

S. No	Course Code	Course title	Credits	Course Duration	Equivalent Professional/open elective in SREC Curriculum
1.	noc22_cs56	An Introduction to Artificial Intelligence	3	12 Weeks	16EI2E15 Applied Soft Computing
2.	noc22-cs53	Introduction to Internet of Things	3	12 Weeks	16EI2E36 Introduction To Internet of Things

ITEM No.VIII

- 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

- Suggestion by expert members on Regulations, Curriculum, various Courses and Electives.
- **Dr.Sujatha Balaraman, University Nominee Suggested**
- To have E-Waste management and Alternative Fuel concepts in the Open Elective course
 - To reduce the CGPA to Opt for credit transfer through the NPTEL course
 - To add Industry 5.0 concept in the Industry 4.0 course
 - To use Blooms Taxonomy while framing the Course Outcomes(COs)

➤ **Dr.V.Karthikeyan, Central Government Nominee Suggested**

- To include pH level, Water, CO Emission Control, Waste Management, Process of Heating, Chimney concepts, Measurement and analysis of CO, Nitrogen, Gas Analyzer in the Pollution and Control Engineering Course.
- To teach marketing and Marketing analysis in Product Design and Development course
- The Faculty pursuing Ph.D in the area of sensor technology has to handle the specialization courses
- To purchase the advance sensors for Specialization Courses for explaining the concepts of Sensor Technology

➤ **Mr.R.Vasiraj, Industry expert Suggested**

- To include Cloud Computing concepts in the Industrial Internet of Things course and Predictive Analysis in Industrial Safety Course.
- To teach online simulation tools in Specialization courses and small plug and play type of projects can be given
- To have Real time applications, Pneumatics and Hydraulics sensors topics in Automotive Sensors course.
- To have One credit course in the field of Automotive Vehicle operation
- To teach Cyber Security concepts in industries to avoid the data stealing in Industry
- To have Integrated Sensors and Quad Sensors topics in the Automotive Sensors course

➤ **Dr.I.Hariharan, Subject Expert Suggested**

- Non scalar vibration sensors and sensors for condition monitoring concepts in the any of the Specialization courses
- To include Single Conditioning Unit in the sensor data analytics course
- Sensors in Advanced Vehicles must be taught to the students as an addition course

➤ **Mrs.B.Miruthula , Alumni Expert suggested**

- To reduce the contents Sensor Data Analytics and add concepts like data management, data acquisition, processing and analysis.
- Specialization course can be started from V semester instead of IV semester

General Comments

- ✓ Members suggested to elaborate the syllabus for the Minor Course and suggested to teach Prerequisite concepts before the beginning of each specialization course
- ✓ Members suggested to have more 4 credit papers with Theory cum laboratory course for the Specialization
- ✓ Members strongly recommended to recruit faculty members to improve the teaching for Specialization courses

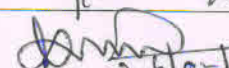
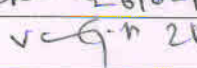
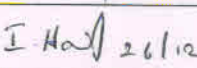
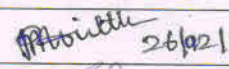
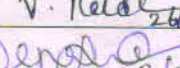
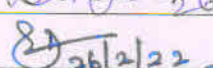
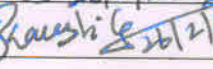
15th BOARD OF STUDIES MEETING

ITEM No.IX

➤ 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.

Suggestions/Comments from External Expert Members and University Nominee are recorded

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	 26/2/2022
Dr.V.Karthikeyan	Expert from Central Government Research Labs	 26/2/22
Mr.R.Vasiraj	Expert from Industry	 26/2/22
Dr.I.Hariharan	Subject Expert from Other University	 26/12/22
Mrs.B.Miruthula	Alumni Member	 26/2/22
Dr.B.Sharmila	Internal Member	 26/2/22
Dr.V.Rukkumani	Internal Member	 26/2/22
Dr.V.Radhika	Internal Member & Coordinator	 26/2/22
Dr.D.Devasena	Internal Member	 26/2
Mr.Y.Dharshan	Internal Member	 26/2/22
Mr.S.Kaushik	Internal Member	 26/2/22


CHAIRPERSON
BOARD OF STUDIES
Department of EIE



SRI RAMAKRISHNA ENGINEERING COLLEGE, COIMBATORE – 22

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**MINUTES OF THE 10th BOARD OF STUDIES MEETING FOR THE PG
CONTROL AND INSTRUMENTATION PROGRAMME HELD ON 26.02.2022 AT 2.00 PM
IN THE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

The following members attended the above meeting.

1. **Dr.K.Srinivasan**
Chairman
Professor and Head,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
2. **Dr Sujatha Balaraman**
University Nominee
Professor,
Department of Electrical and Electronics Engineering,
Government College of Technology
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3. **Dr.V.Karthikeyan**
Expert from Central Government Research Labs,
Assistant Professor,
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National Institute of Technology
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Industry Expert
Deputy Manager
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5. **Dr. I.Hariharan**
Subject Expert,
Assistant Professor,
Vellore Institute of Technology,
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6. **Mrs.B.Miruthula**
Alumni Expert,
Senior Project Manager,
Soliton Technologies Pvt. Ltd.,
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7. **Dr.B.Sharmila,**
Internal Member,
Professor,
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
8. **Dr.V.Rukkumani,**
Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
9. **Dr.V.Radhika,**
Coordinator & Internal Member,
Associate Professor,
Department of Electronics & Instrumentation Engineering
Sri Ramakrishna Engineering College, Coimbatore.
10. **Dr.D.Devasena,**
Internal Member,
Assistant Professor (Sl.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.
11. **Mr.Y.Dharshan,**
Internal Member,
Assistant Professor (Sr.G),
Department of Electronics & Instrumentation Engineering,
Sri Ramakrishna Engineering College, Coimbatore.

10th BOARD OF STUDIES MEETING

12. Mr.S.Kaushik,

Internal Member,

Assistant Professor (Sr.G),

Department of Electronics & Instrumentation Engineering,

Sri Ramakrishna Engineering College, Coimbatore

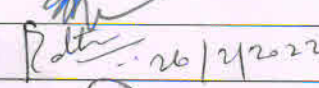
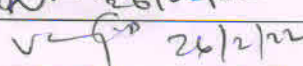
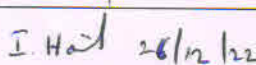
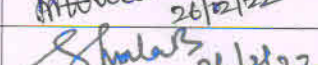
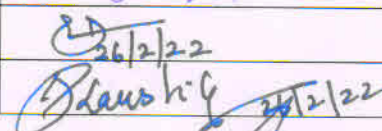
Dr.K.Srinivasan Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 10th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM No.I

Regulation 2020 and Curriculum

- 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 are recorded

Name of the Member	Designation	Signature
Dr.K.Srinivasan	Chairperson	
Dr Sujatha Balaraman	University Nominee	 26/2/22
Dr.V.Karthikeyan	Expert from Central Government Research Labs	 26/2/22
Mr.R.Vasiraj	Expert from Industry	 26/2/22
Dr.I.Hariharan	Subject Expert from Other University	 26/2/22
Mrs.B.Miruthula	Alumni Member	 26/2/22
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Dr.V.Rukkumani	Internal Member	 26/2/22
Dr.V.Radhika	Internal Member & Coordinator	 26/2/22
Dr.D.Devasena	Internal Member	 26/2/22
Mr.Y.Dharshan	Internal Member	 26/2/22
Mr.S.Kaushik	Internal Member	 26/2/22

CHAIRPERSON
BOARD OF STUDIES
Department of EIE