



Department of Electronics and Communication Engineering

Minutes of 10th Board of Studies Meeting

10th Board of Studies Meeting in the Department of Electronics & Communication Engineering

Mode: Through Hybrid mode (Meeting Link: <https://meet.google.com/isr-bkoo-tay>)

Venue: FXEC, Presentation hall

Date & Time: 10th January, 2024 at 10.30 a.m

AGENDA

BoS / ECE 10.1: Welcome address and Opening Remarks by Chairman, Board of studies in the Department of ECE

BoS / ECE 10.2: Confirmation of the Minutes of the 9th meeting of Board of studies in the Department of Electronics & Communication Engineering held on 13th June, 2023.

BoS / ECE 10.3: Business brought forward by the Chairman, Board of Studies, which is

10.3.1 Industry supported course on 21EC6601/VLSI Design for 2023-2024 Even Semester.

10.3.2 NPTEL course list for 2023-2024 Even Semester.

10.3.3 Skill based Value Added Courses (SVAC) for 2023-2024 Even semester.

10.3.4 R2024-Preparing Curriculum and Syllabus for 1st and 2nd semester UG- Electronics and Communication Engineering and PG-Communication Systems.

BoS / ECE 10.4: Other suggestions given by the BOS Members

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Electronics & Communication Engineering was held on 10th January, 2024 at 10.30 a.m through both Hybrid mode.

The following members were present:

S. No	Members as per UGC Norms	Members Nominated
1	Head of the Department concerned (Chairman)	Mrs.J.Friska, Head & Asso. Prof, ECE department
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr. S. Balkani, Professor, Department of Electronics and Communication Engineering, Government College of Engineering, Tirunelveli
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.S.Anand Associate Professor Department of Communication Engineering, School Of Electronics Engineering (Sense) VIT-Vellore
		Dr.P.Sivakumar Professor, Department of Electronics and Communication Engineering, Kalasalingam University, Krishnankoil-626126. Virudhunagar, Tamil Nadu, India.
4	One representative from industry/corporate sector/allied area relating to placement	Er. Francy Williams Senior Engineer, All India Radio , Palayamkottai, Tirunelveli
5	One Post Graduate meritorious aluminous nominated by the Principal	Er. S.J. Jinolin Jacob Senior HR manager, US Operations Inigma Technologies Pvt Ltd Nagercoil

Department of Electronics and Communication Engineering

Internal Members Present:

S. No	Name of the Member	Designation
1	Dr.G.Rajakuamr	Professor/ECE & COE
2	Dr.L.R.Priya	Professor Academics
3	Dr.V.R.S.Mani	Professor/ECE
4	Mr.C.Amarsingh Feroz	Asso. Prof./ECE
5	Dr.R.Kabilan	Asso. Prof/ECE
6	Dr.P.Kannan	Asso. Prof/ECE
7	Dr.K.Lakshmi Narayanan	Asso. Prof/ECE
8	Dr.R.Prem Ananth	Asso. Prof/ECE
9	Dr.M.Suresh Chinna Thampy	Asst. Prof/ECE
10	Dr.S.Allwin Devaraj	Asst. Prof/ECE
11	Dr. M.V.Rajee	Asst. Prof/ECE
12	Mr.B.Pradheep T Rajan	Asst. Prof/ECE
13	Mrs.M.Radha	Asst. Prof/ECE
14	Mrs.T.Ramya	Asst. Prof/ECE
15	Mrs.S.Balammal@Geetha	Asst. Prof/ECE
16	Mrs.P.Bhuvana	Asst. Prof/ECE
17	Mrs.U.Lenin Marksia	Asst. Prof/ECE
18.	Mrs.Valli Suseela	Asst. Prof/ECE

Members Absent:

Nil

Department of Electronics and Communication Engineering

Board of Studies Meeting started with a prayer by Mr.C.Amarsingh Feroz, Asso.Prof/ECE

BOS / ECE 10.1: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ECE

The Mrs.Lenin Marksia, AP/ECE welcomed and introduced the Members and Special Invitees of Board of Studies and Management dignitaries by depicting their respective academic and professional profile.

The Chairman, BOS of Electronics & Communication Engineering once again welcomed the members of 10th Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.

BOS / ECE 10.2: CONFIRMATION OF THE MINUTES OF THE 9th MEETING OF BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING HELD ON 13th June, 2023 AND ACTION TAKEN REPORT OF 9th MEETING OF BOARD OF STUDIES

The minutes of the Ninth Board of Studies meeting held on 13th June, 2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9th Academic Council Meeting.

➤ *Action taken report (Enclosed in Annexure I)*

BOS / ECE 10.3: BUSINESS BROUGHT FORWARD BY THE CHAIRMAN, BOARD OF STUDIES:

10.3.1 INDUSTRY SUPPORTED COURSE ON 21EC6601/VLSI DESIGN FOR 2023-2024 EVEN SEMESTER

- It is suggested to introduce Industry Supported Course in 21EC6601/VLSI Design for the 6th semester students by VLSI based company Vicanpro Technologies Private Limited, Tuticorin.

➤ **RESOLVED TO APPROVE the above-mentioned suggestions for Industry Supported Course on 21EC6601/VLSI Design for 2023-2024 Even Semester**

10.3.2: NPTEL COURSE LIST FOR 2023-2024 EVEN SEMESTER

- NPTEL course completed and applied for credit transfer has been discussed for 2021-2022 (Odd & Even), 2022-2023 (Odd & Even), 2023-2024 (Odd) were discussed.
- List of suggested Online NPTEL course for 2023-2024 (Even) were presented. *(Enclosed in Annexure III)*

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- **RESOLVED TO APPROVE** the above mentioned NPTEL COURSE LIST FOR 2023-2024 EVEN SEMESTER

10.3.3: R2021-SKILL BASED VALUE ADDED COURSE (SVAC) FOR 2023-2024 EVEN SEMESTER

- Number of students completed, test project evaluation details for the Skill based Value Added Course (SVAC) in the 2023-2024 Odd semester was presented for 2023-2024 odd semester.
- List of Skill based Valued Added Course (SVAC) for 2023-2024 Even Semester Approval *(Enclosed in Annexure II)*

- **RESOLVED TO APPROVE** the above mentioned R2021-SKILL BASED VALUE ADDED COURSE (SVAC) FOR 2023-2024 EVEN SEMESTER

10.3.4: R2024-PREPARING CURRICULUM AND SYLLABUS FOR 1ST AND 2ND SEMESTER UG-ELECTRONICS AND COMMUNICATION ENGINEERING AND PG-COMMUNICATION SYSTEMS

- The Board Chairman presented that R2024 is being framed based on following verticals Electronics, Communication, Semiconductor, Networking, Embedded Systems and RF Technologies. The faculties will be grouped based on the verticals along with industry expert, alumni members to frame Industry Supported Curriculum.
- **RESOLVED TO APPROVE** the above mentioned R2024-PREPARING CURRICULUM AND SYLLABUS FOR 1ST AND 2ND SEMESTER UG- ELECTRONICS AND COMMUNICATION ENGINEERING AND PG-COMMUNICATION SYSTEMS

BoS / ECE 10.4: OTHER SUGGESTIONS GIVEN BY THE BOS MEMBERS

- It is suggested to introduce more number of Honor degree course in the R2024 Curriculum.
- It is suggested that the students to participate in Hackathons, National level completions, International completions in foreign universities.
- It is suggested to offer courses from foreign university.
- It is suggested all the students to do internship and final year projects in company so the students will get industry exposure. Also insist the students to get publish papers in Scopus indexed journals.
- Interdisciplinary research and project need to be implement more among faculty and students so that the product development will be increase.
- Suggested to train the students in CST, CADENCE software to get high core placements.
- Insisted that communication skills has become essential for students in employment sector and soft skills to be delivered throughout the course.

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- Soft skill development courses, Japanese Language certification, German Language certification and French language certification can be converted in to credit courses.
- Suggested to include English course syllabus content with Group Discussion that will be help in placements.

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

- RESOLVED TO APPROVE the Industry supported course on 21EC6601/VLSI Design for 2023-2024 Even Semester.
- RESOLVED TO APPROVE NPTEL course list for 2023-2024 Even Semester.
- RESOLVED TO APPROVE the Skill based Value Added Courses (SVAC) for 2023-2024 Even semester.
- RESOLVED TO APPROVE the R2024-Preparing Curriculum and Syllabus for 1st and 2nd semester UG- Electronics and Communication Engineering and PG-Communication Systems.

The Chairman thanked all the members for their suggestions and substantial inputs provided in the meeting. Finally, the meeting ended with a vote of thanks by Mrs.U.Lenin Marksia, AP/ECE.

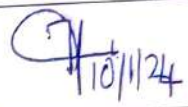




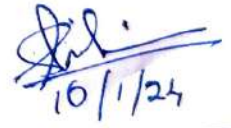

18/01/2024
MEMBER SECRETARY
BOARD OF STUDIES


18/01/2024
CHAIRMAN
BOARD OF STUDIES

Department of Electronics and Communication Engineering

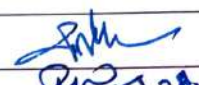

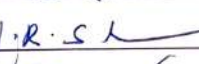
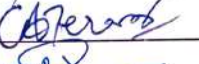
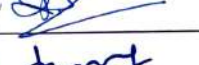
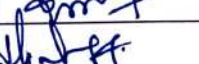

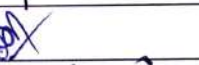
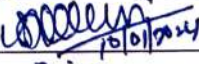
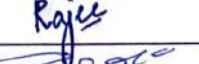
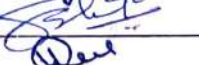
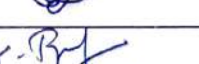
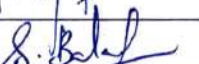
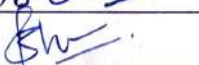




Attendance Sheet - Table of Members

External Members present:

S. No	Members as per UGC Norms	Members Nominated	Signature
1	Head of the Department concerned (Chairman)	Mrs.J.Friska, Head &Asso. Prof, ECE department	 10/1/24
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr. S. Baulkani, Professor, Department of Electronics and Communication Engineering, Government College of Engineering, Tirunelveli	 10.1.24.
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.S.Anand, Associate Professor Department of Communication Engineering, School of Electronics Engineering (Sense), VIT-Vellore	
		Dr. P. Sivakumar, Professor, Department of Electronics and Communication Engineering, Kalasalingam University, Krishnankoil-626126. Virudhunagar, Tamil Nadu, India.	
4	One representative from industry/corporate sector/allied area relating to placement	Er.Francy Williams, Senior Engineer, All India Radio , Palayamkottai, Tirunelveli	 10/1/2024
5	One Post Graduate meritorious aluminous nominated by the Principal	Er.S.J. Jinolin Jacob, HR manager, US Operations Insigma Technologies Pvt Ltd Trivandrum	 10/1/24

Department of Electronics and Communication Engineering

Internal Members Present:

S. No	Name of the Member	Designation	Signature
1	Dr.G.Rajakuamr	COE	
2	Dr.L.R.Priya	Professor Academics	 10/1/24
3	Dr.V.R.S.Mani	Professor/ECE	
4	Mr.C.Amarsingh Feroz	Asso. Prof./ECE	
5	Dr.R.Kabilan	Asso. Prof/ECE	
6	Dr.P.Kannan	Asso. Prof/ECE	
7	Dr.K.Lakshmi Narayanan	Asso. Prof/ECE	
8	Dr.R.Prem Ananth	Asso. Prof/ECE	
9	Dr.M.Suresh Chinna Thampy	Asst. Prof/ECE	
10	Dr.S.Allwin Devaraj	Asst. Prof/ECE	 10/01/2024
11	Dr. M.V.Rajee	Asst. Prof/ECE	
12	Mr.B.Pradheep T Rajan	Asst. Prof/ECE	
13	Mrs.M.Radha	Asst. Prof/ECE	
14	Mrs.T.Ramya	Asst. Prof/ECE	
15	Mrs.S.Balammal@Geetha	Asst. Prof/ECE	
16	Mrs.P.Bhuvana	Asst. Prof/ECE	
17	Mrs.U.Lenin Marksia	Asst. Prof/ECE	
18.	Mrs.Vallisusella	Asst. Prof/ECE	

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Department of Electronics and Communication Engineering

Department of Electronics & Communication Engineering on 10th January, 2024 at 10.30 a.m through hybrid mode (Meeting Link: <https://meet.google.com/isr-bkoo-tav>)



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Allwin Devaraj S (Presenting)

ECE Department Achievements

- 11 Ph.D. Scholars completed Ph.d and 24 scholars pursuing Ph.d
- Received IEEE best student branch award
- 5 IEEE sponsored International conference arranged
- Best department award-2020,2022,2023 received from SCAD group
- 2600+ Alumni all over the globe
- 2014-Permanently affiliated to Anna University
- 2019-Anna University Recognized Research Centre
- 2020-Texas Instruments Laboratory Established
- Produced 19 UG and 13 PG Rank Holders,
- MOU with 12 industries

Dr. P. Sivakumar ECE

Anand S Thampy

Pradeep T Rajan

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11:15 AM 10-01-2024

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Allwin Devaraj S (Presenting)

Agenda

ITEM NO.	PARTICULARS
ITEM 1.1	Introductory Remarks
ITEM 1.2	Ninth BoS Meeting Minutes
ITEM 1.3	Ninth Board of Studies Meeting - Action Taken Report
ITEM 1.4	Industry Supported Course
ITEM 1.5	Online courses for credit transfer
ITEM 1.6	Skill based Value-Added Course (SVAC)
ITEM 1.7	Course Advancement details
ITEM 1.8	Minor /Specialization Degree details
ITEM 1.9	1 st semester Projects Work in industry details
ITEM 1.10	New Lab requirements approval
ITEM 1.11	NPTEL course list approval for 2023-2024 Even Semester
ITEM 1.12	Any other matters

Dr. P. Sivakumar ECE

Anand S Thampy

Pradeep T Rajan

11:17 AM | isr-bkoo-tav

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11:17 AM 10-01-2024

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Alwin Dvaraj S (Presenting)

9th Board of Studies Meeting – Action Taken Report

SNO	Suggestions	Action plan	Reference in the Curriculum
1	It is suggested to list resolve FPGA for Embedded System Applications instead of ANS & FPGA Design.	Corrected and implemented	Page No.229
2	It is suggested to list resolve TGAU instead of CAD.	Corrected and implemented	Page No.248
3	Local Credits has been changed from 164 to 148 from 2021-2024 onwards. This is because of the inclusion of Thani courses (1 credit each in III and IV semester)	Corrected and implemented	Page No.207
4	Indigo vocationalism: mandatory zero-credit course has been removed from the Curriculum.	Corrected and implemented	Page No.140
5	21EE1107/21EE1108/21EE1109 a 1-credit paper was introduced since July 2021 (AMENDMENT 2021) B.E. - ECE COURSE CURRUM AND SYLLABUS	Corrected and implemented	Page No.65
6	21EE2102/Technology in Rural Cultures 1- credit paper was reintroduced since in B.2021 (AMENDMENT 2021) B.E. - ECE COURSE CURRUM AND SYLLABUS	Corrected and implemented	Page No.407

Alwin Dvaraj S

Dr. P. Sivalakumar ECE

Anand S Thampy

Pradeep T Rajan

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Alwin Dvaraj S (Presenting)

Skill based Value Added Course (SVAC)

S No	Skill Code	Skill Name	Semester	Contact Periods	Credits
1	21EE2DS01	PCB Design	II	60	2
2	21EE3DS01	Mobile Robotics	III	60	2
3	21EE4IS01	Signal and Image Processing using MATLAB	IV	60	2
4	21EE5IS01	System Verilog using UVM	V	60	2

Alwin Dvaraj S

Dr. P. Sivalakumar ECE

Anand S Thampy

Pradeep T Rajan

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Alwin Devaraj S (Presenting)

NPTEL course list approval for 2023-2024 Even Semester

S.No	Institution	Course Name	Duration	Start / End Date
1	IT Indore	Advanced Computer Networks	12 weeks	22 Jan 2024 - 12 Apr 2024
2	IT Kanpur	Advanced Robotics	12 weeks	22 Jan 2024 - 12 Apr 2024
3	IT DSI	An Introduction to Artificial Intelligence	12 weeks	22 Jan 2024 - 12 Apr 2024
4	IT Madras	Analog IC Design	12 weeks	22 Jan 2024 - 12 Apr 2024
5	IT Kharagpur	Bio Systems and its Applications	12 weeks	22 Jan 2024 - 12 Apr 2024
6	IIT Bangalore	Design and Analysis of VLSI Subsystems	12 weeks	22 Jan 2024 - 12 Apr 2024

Alwin Devaraj S

Dr. P. Sivakumar ECE

Anand S Thampy

Pradeep T Rajan

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Alwin Devaraj S (Presenting)

Seeking Approval

- NPTEL course list for 2023-2024 Even Semester.
- Skill based Value Added Courses for 2023-2024 Even semester.
- Preparing 2024 Curriculum.

Alwin Devaraj S

Dr. P. Sivakumar ECE

Anand S Thampy

Pradeep T Rajan

11:29 AM | sr-bkoo-tav

Breaking news Unfolding now

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ENG IN 11:29 AM 10-01-2024

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Department of Electronics and Communication Engineering



ANNEXURE - I

Minutes of 9th Board of Studies Meeting – Action Taken Report

S.NO	Suggestions	Action plan	Reflection in the Curriculum
1	It is suggested to introduce FPGA for Embedded System Applications instead of ASIC & FPGA Design .	Corrected and implemented	Page No.230
2	It is suggested to introduce TCAD instead of CAD.	Corrected and implemented	Page No.244
3	Total Credits has been changed from 166 to 168 from 2023 -2024 onwards. This is because of the inclusion of Tamil courses (1 credit each in III and IV semester).	Corrected and implemented	Page No.05
4	21HS1103/Tamil Heritage a 1- credit paper was introduced newly in R2021 (AMENDMENT 2023) B.E - ECE CURRICULUM AND SYLLABI	Corrected and implemented	Page No.85
5	21HS2103/Technology in Tamil Culture a 1- credit paper was introduced newly in R2021 (AMENDMENT 2023) B.E - ECE CURRICULUM AND SYLLABI	Corrected and implemented	Page No.107

ANNEXURE -II

List of Skill based Value Added Course (SVAC) for Approval

S.No	Skill Code	Skill Name	Semester	Contact Periods	Credits
1	21EC2DS01	PCB Design	II	60	2
2	21EC3DS01	Mobile Robotics	III	60	2
3	21EC4DS01	Signal and Image Processing using MATLAB	IV	60	2
4	21EC5DS01	System Verilog with UVM	V	60	2

ANNEXURE -III

List of NPTEL Courses

S. No	Institution	Course Name	Duration	Start / End Date
1	IIT Indore	Advanced Computer Networks	12 weeks	22 Jan 2024- 12 Apr 2024
2	IIT Kanpur	Advanced Robotics	12 weeks	22 Jan 2024- 12 Apr 2024
3	IIT Delhi	An Introduction to Artificial Intelligence	12 weeks	22 Jan 2024- 12 Apr 2024
4	IIT Madras	Analog IC Design	12 weeks	22 Jan 2024- 12 Apr 2024
5	IIT Kharagpur	Blockchain and its Applications	12 weeks	22 Jan 2024- 12 Apr 2024
6	IIIT Bangalore	Design and Analysis of VLSI Subsystems	12 weeks	22 Jan 2024- 12 Apr 2024
7	IIT Kharagpur	Embedded Sensing, Actuation and Interfacing Systems	12 weeks	22 Jan 2024- 12 Apr 2024
8	IIT Kharagpur	Embedded Systems Design	12 weeks	22 Jan 2024- 12 Apr 2024
9	IIT Kharagpur	Deep Learning	12 weeks	22 Jan 2024- 12 Apr 2024
10	IIT Kharagpur	Fundamentals Of MIMO Wireless Communication	12 weeks	22 Jan 2024- 12 Apr 2024
11	IIIT Delhi	Optical Wireless Communications for Beyond 5G Networks and IoT	12 weeks	22 Jan 2024- 12 Apr 2024
12	IIT Roorkee	RF Transceiver Design	12 weeks	22 Jan 2024- 12 Apr 2024