

National Engineering College, K.R.Nagar, Kovilpatti- 628503
(An Autonomous Institution -Affiliated to Anna University, Chennai)
www.nec.edu.in

Department of Electronics and Communication Engineering

25th Board of Studies Meeting

Venue: COE Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628503

Date & Time: 22.05.2026 & 10.30A.M

AGENDA

ECE/BoS25.1	:	Welcome address and Opening Remarks by Chairman, Board of studies of the Department of Electronics and Communication Engineering
ECE/BoS25.2	:	Confirmation of the Minutes and action taken report of the 24 th Board of studies meeting of the Department of Electronics and Communication Engineering held on 22 nd November 2025.
ECE/BoS 25.3	:	Business brought forward by the Chairman, Board of studies.
	25.3.1.	UG degree open and programme elective course R-2023
	25.3.2.	One Credit Courses for UG degree programme under R-2023.
	25.3.3.	Course design document for 7 th & 8 th semester courses under R-2023
	25.3.4.	Discussion on Student survey feedback for R 2023 Curriculum syllabus and inferences.
ECE/BoS 25.4	:	Suggestions given by the BoS Members

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F. No. 1-1/NEC/ECE/BoS

22nd May, 2026

Dear Sir/Madam,

Sub: Minutes of the 25th Board of Studies Meeting of Department of Electronics and Communication Engineering - Reg.

The 25th Board of Studies Meeting of Department of Electronics and Communication Engineering, National Engineering College, K.R.Nagar, Kovilpatti – 628503 was held on 22nd May 2026 at 10.30 A.M in the COE Conference Hall, National Engineering College. Thank you for attending the meeting and giving valuable suggestions. The minutes of the meeting is attached herewith.

Kindly go through the minutes and give your remarks if any. Please acknowledge the receipt of this mail and approve the minutes if there are no comments from your end.

Thanking You,

Yours Sincerely


22/5/26
(Dr.S.Tamil Selvi)

Department of Electronics and Communication Engineering

25thBoS Meeting- Minutes

held on 22nd May 2026 at 10.30A.M

Venue: COE Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628503

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Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 25th Board of studies Meeting of the Department of Electronics and Communication Engineering was held on 22nd May, 2026 at 10.30 A.M in the COE Conference Hall, National Engineering College, K.R.Nagar, Kovilpatti-628503.

The Board of Studies members are as follows,

1.	Dr.S.Tamil Selvi, Professor& Head	Chairman
2.	Dr.S.Shanmugavel, Director	Internal Members
3.	Dr.A.Shenbagavalli, Professor & Dean (Academic & Faculty Development)	
4.	Dr.T.S.Arun Samuel, Professor	
5.	Dr. K.J.Prasanna Venkatesan, Asso. Professor	
6.	Dr.C.Balamurugan, Asso. Professor	
7.	Mr.T.Devakumar, Assistant Professor(SG)	
8.	Mr.B.Ganapathy Ram, Assistant Professor (SG)	
9.	Dr.M.Sathish Kumar, Assistant Professor (SG)	
10.	Ms.P.Arishenbagam, Assistant Professor	
11.	Mrs.S.Sulochana, Assistant Professor	
12.	Mrs.C.K.Balasundari, Assistant Professor	
13.	Mrs.V.SrirengaNachiyar, Assistant Professor	
14.	Dr.V.Lingasamy, Professor of Practice	

15.	Dr. V.R. Vijaykumar, Professor, Department of Electronics and Communication Engineering, Anna University- MIT Campus, Chennai.	Academic Expert nominated by Anna University, Chennai
16.	Dr. P.Prakash, Professor, Dept. of ECE, Anna University- MIT Campus, Chennai- 600 025.	Academic experts nominated by Academic Council
17.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai.	Academic experts nominated by Academic Council
18.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	Industrial Experts
19.	Mrs.Mehala Balasundaram, Manager, Customer Information Experience, Synopsys, Bangalore.	
20.	Ms.R.Rohini-IV ECE	Student Members
21.	Mr.Shakthi Subaraj I-IV ECE	

BoS/ECE 25.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES OF THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
		The Chairman, BoS of the department of Electronics and Communication Engineering welcomed and introduced the members of the 25 th Board of Studies.
BoS/ECE 25.2	:	TO CONFIRM THE MINUTES OF 25th BOS MEETING HELD ON 22nd May 2026.
		➤ The minutes of the 24 rd Board of Studies meeting held on 22 nd November 2025 were communicated to the members. The received comments have been properly analyzed and corrections have been carried out in the syllabus. Then it was presented in 24 th Academic Council meeting held on 13 th December 2025 and the

		same was approved. ➤ Action Taken Report (Enclosed in <i>Annexure I</i>)
BoS/ECE 25.3.1	:	Consider and approve the Open and Programme Elective Courses of U.G. degree programme under R-2023. Resolved to approve the Open and Programme Elective Courses of U.G. degree programme under R-2023.
BoS/ECE 25.3.2	:	Consider and approve the One Credit Courses of U.G. degree programme under R-2023. Resolved to approve the One Credit Courses of U.G. degree programme under R-2023.
BoS/ECE 25.3.3	:	Consider and approve the Course design document for 7th and 8th semester courses under R-2023 Resolved to approve the Course design document for 7th and 8th semester courses under R-2023.
BoS/ECE 25.4	:	SUGGESTIONS GIVEN BY THE BoS MEMBERS
25.4.1	:	Programme Elective Courses: <u>PCB Design and Fabrication Techniques</u> ➤ The Expert members suggested that the course PCB Design and Fabrication Techniques may be given as the core course in the third semester for the students or value added course in the R2027. ➤ Also expert members suggested to reduce the theory content and including the practical component for the course PCB Design and Fabrication Techniques. ➤ In PCB Design and Fabrication Techniques, the expert members suggested to make use of Altium free software for both faculty and students.

Signal Processing and AI for Wireless Communication

- For the course Signal Processing and Artificial Intelligence for Wireless Communication, the expert members suggested to reduce the some redundant content in CO1.
- Also the expert members suggested to reduce the content in all CO's for the course Signal Processing and Artificial Intelligence for Wireless Communication and may be converted to integrated course.

RTL Design for Digital Communication:

- The expert members suggested to separate the co4 experiments into each CO's for the course RTL Design for Digital Communication Systems, since CO1 to CO3 is of theory and CO4 is the practical component of CO1 to CO3. They are suggested to combine the practical component in the same CO.
- In the course RTL Design for Digital Communication, the expert members suggested to change the CO2 topics by including the FPGA implementation.
- Also the expert members suggested to remove the term Altera in the CO1 content.

FPGA based error control codes

- The expert members suggested to re-modify the content for the course FPGA based error control codes as per RTL design for Digital Communication.
- In the course FPGA based error control codes, the expert members suggested that CO1 to CO3 is enough since CO4 is part of CO1 to CO3.

25.4.2	:	Open Elective Courses: ➤ In Fundamentals of Digital Electronics course, the expert members suggested to refine the syllabus, since the content is too heavy for the mechanical students. ➤ Also the expert members suggested that fundamental concept with hands on is necessary for the mechanical students.
25.4.3		One Credit Courses: ➤ For the course Computational Electromagnetics and Field Visualization, the major part of the syllabus consists of basic experiments. Since it is a experiential learning course, the expert members suggested to make use of wearable sensors with simple application to make real time projects.
25.4.4		Discussion on student survey feedback R2023 curriculum and syllabus ➤ From the students feedback R2023 curriculum was very good and the level of advancement of courses was very good. ➤ The students felt that the Employability Enhancement Courses were useful. ➤ From the students suggestion, the course 23EC63C Artificial Intelligence and Machine Learning can be moved to 4th semester. ➤ The students felt that the basic science elective course Fourier series and Transforms may be moved to core course.

	➤ The students suggested that the PCB Design workshop may be given prior to Product Development Laboratory. ➤ The students needed Lab View tool as the value added course.
25.4.5	General Points Discussed: ➤ In every year during the second week of March, IISC, Bangalore allows faculties and students to the lab. The expert members suggested the faculty members to make use of this opportunity to visit the lab facilities in IISC, Bangalore.

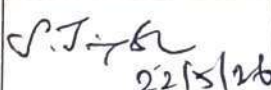
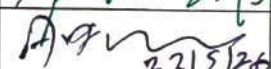
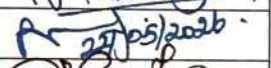
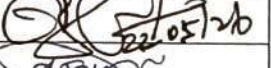
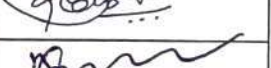
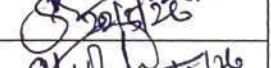
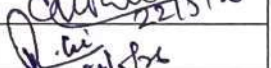
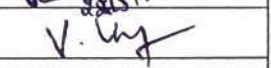
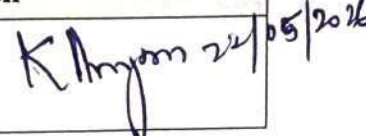

 23/5/24
BOARD CHAIRMAN

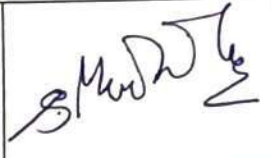
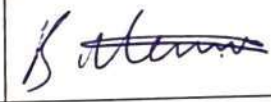
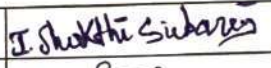

The members had a brainstorming discussion and interaction among themselves. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

1. Syllabus for open elective and programme elective courses under R-2023
2. One Credit Courses for UG degree programme under R-2023
3. Course design document for 7th and 8th semester courses under R-2023
4. Discussion on Student survey feedback for R 2023 Curriculum syllabus and inferences.
5. Any other matters.

Dr.T.S.Arun Samuel, Professor/ ECE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present:

Chairman		Signature
1.	Dr. S.Tamil Selvi, Professor & Head, Department of ECE, National Engineering College, Kovilpatti.	 22/5/26
Internal Members		
2.	Dr.S.Shanmugavel, Director	 22/5/26
3.	Dr.A.Shenbagavalli, Professor & Dean (Academic & Faculty Development)	 22/5/26
4.	Dr.T.S.Arun Samuel, Professor	 22/5/26
5.	Dr. K.J.Prasanna Venkatesan, Asso. Professor	 22/5/26
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11.	Mrs.S.Sulochana, Assistant Professor	 22/5/26
12.	Mrs.C.K.Balasundari, Assistant Professor	 22/5/26
13.	Mrs.V.SrIREngaNachiyar, Assistant Professor	 22/5/26
14.	Dr. V.Lingasamy, Professor of Practice	 22/5/26
Academic Expert nominated by Anna University, Chennai		
15.	Dr. V.R. Vijaykumar, Professor, Department of Electronics and Communication Engineering, Anna University- MIT Campus, Chennai.	 22/5/26
Academic Experts nominated by Academic Council		
16.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai.	 22/5/26

17.	Dr. P.Prakash, Professor, Dept. of ECE, Anna University- MIT Campus, Chennai	
Industrial Experts		
18.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	
19.	Mrs.MehalaBalasundaram, Manager, Customer Information Experience, Synopsys, Bangalore.	
Student Members		
20.	Mr.I.Sakthi Subbaraj -IV ECE	
21.	Ms.R.Rohini-IV ECE	

 23/5/20

CHAIRMAN
BOARD OF STUDIES

National Engineering College, K.R.Nagar, Kovilpatti- 628503
Department of Electronics and Communication Engineering
25thBoS ACTION TAKEN REPORT

The suggestions given by the Board of Studies Members on 22.05.2026 are successfully incorporated and the action taken is as follows.

S. No	SUGGESTIONS GIVEN BY THE BOS MEMBERS	Action Taken
1.	The expert members suggested to reduce the theory content and including the practical component for the course PCB Design and Fabrication Techniques.	As per the suggestion given by the BoS external members, the theory content has been reduced.
2.	The expert members suggested to reduce the content in all CO's for the course Signal Processing and AI for Wireless Communication	The suggestions given by board members were Implemented
3.	In the course RTL Design for Digital Communication, the expert members suggested to change the CO2 topics by including the FPGA implementation. The expert members suggested to separate the CO4 experiments into each CO's for the course RTL Design for Digital Communication Systems, since CO1 to CO3 is of theory and CO4 is the practical component of CO1 to CO3. They are suggested to combine the practical component in the same CO.	As per the suggestion given by the BoS external members, the CO2 topics have been changed by including the FPGA implementation. Also the theory and practical components are combined.
4.	The expert members suggested to re-modify the content for the course FPGA based error control codes as per RTL design for Digital Communication.	The suggestions given by board members were Implemented
5.	In Fundamentals of Digital Electronics course, the expert members suggested to refine the syllabus, since the content is too heavy for the mechanical students.	The contents have been reduced and the practical components are also introduced for the course Fundamentals of Digital Electronics.

6.	For the course Computational Electromagnetics and Field Visualization, the major part of the syllabus consists of basic experiments. The expert members suggested to make use of wearable sensors with simple application to make real time projects.	As per the suggestions given by board members, Wearable Electronic Sensors has been introduced for the Simulation and Visualization of Static Fields for the course Computational Electromagnetics and Field Visualization
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S. J. R. S.
22/6/26

CHAIRMAN

BOARD OF STUDIES

25th BOARD OF STUDIES MEETING - DEPARTMENT OF ECE ON 22.05.2026

