Department of Electronics and Communication Engineering

24thBoS Meeting- Minutes

held on 22nd November2025 at 11.00A.M

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

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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Department of Electronics and Communication Engineering

24th Board of Studies Meeting

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

Date & Time: 22.11.2025 &11.00A.M

AGENDA

ECE/BoS24.1	:	Welcome address and Opening Remarks by Chairman, Board of studies of the Department of Electronics and Communication Engineering
ECE/BoS24.2	:	Confirmation of the Minutes and action taken report of the 23rdBoard of studies meeting of the Department of Electronics and Communication Engineering held on31st May2025.
ECE/BoS 24.3	:	Business brought forward by the Chairman, Board of studies.

24.3.1.	UG degree programme R-2023 VII & VIII Semester syllabus.
24.3.2.	UG degree programme elective course R-2023
24.3.3.	One Credit Courses for UG degree programmes under R-2023.
24.3.4.	Course design document for 6th & 7th semester courses under R-2023

ECE/BoS 24.4	:	Suggestions given by the BoS Members

National Engineering College, K.R. Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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F. No. 1-1/NEC/ECE/BoS

22ndNovember, 2025

Dear Sir/Madam,

Sub: *Minutes of the 24thBoard of Studies Meeting ofDepartment of Electronicsand Communication Engineering - Reg.*

The 24thBoard of Studies Meeting of Department of Electronics and Communication Engineering, National Engineering College,K.R.Nagar, Kovilpatti – 628503 was held on 22ndNovember2025 at 11.00 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. Pleaseacknowledge the receipt of this mail and approve the minutes if there are no comments from your end.

Thanking You,

Yours Sincerely

(Dr.S.TamilSelvi)

Dr.S.Tamil Selvi, M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engg.
National Engineering College, K.R.Nagar,
Kovilpatti – 628 503

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 24th Board of studies Meeting of the Department of Electronics and Communication Engineering was held on 22nd November, 2025 at 11.00 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.TamilSelvi, 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.R.Manjula Devi, Assistant Professor (SG)	
7.	Mr.B.Ganapathy Ram, Assistant Professor (SG)	
8.	Mrs.S.Karthika, Assistant Professor	
9.	Mrs.S.Malathi, Assistant Professor	
10.	Dr.S.Lavanya, Assistant Professor	
11.	Mrs.S.Sulochana, Assistant Professor	
12.	Dr.V.Lingasamy, Professor of Practice	
13.	Dr. V.R. Vijaykumar, Professor, Department of Electronics and Communication Engineering, Anna University- MIT Campus, Chennai.	Academic Expert nominated by Anna University, Chennai
14.	Dr. P.Prakash, Professor, Dept. of ECE, Anna University- MIT Campus, Chennai- 600 025.	Academic experts nominated by Academic Council
15.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai.	Academic experts nominated by Academic Council
16.	Dr.E.S.Gopi,Professor, Department of ECE, National Institute of Technology, Tiruchirappalli.	Academic Experts nominated from Central Institutions

17.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	Industrial Experts
18.	Mr.Jeyakantan Murugan, Senior Engineering Leader, ZF Group, Chennai	
19.	Mr. M.Ramesh, Manager, Technology, Data Patterns India (P) Ltd., Chennai	
20.	Mr.V.K.Rajiv, Senior Director, Test Engineering, Tessolve, Bangalore	
21.	Mrs.Mehala Balasundaram, Manager, Customer Information Experience, Synopsys, Bangalore.	
22.	Ms.Abhi Shree S –III ECE	Student Members
23.	Mr.Shakthi Subaraj I–III ECE	

BoS/ECE 24.1	:	**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 24th Board of Studies.
BoS/ECE 24.2	:	**TO CONFIRM THE MINUTES OF 23rd BOS MEETING HELD ON 31st May2025.**
		The minutes of the 23rd Board of Studies meeting held on 31st May 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 23rd Academic Council meeting held on 28th June 2025 and the same was approved. ➤ Action Taken Report (Enclosed in *Annexure I*)
BoS/ECE 24.3.1	:	**Consider and approve the syllabus of VII & VIII semester U.G. degree programme (B.E) under R-2023**

		Resolved to approve the syllabus of VII & VIII semester U.G. degree programme (B.E) under R-2023
BoS/ECE 24.3.2	:	**Consider and approve the Programme Elective Courses of U.G. degree programme under R-2023.**
		Resolved to approve the Programme Elective Courses of U.G. degree programme under R-2023.
BoS/ECE 24.3.3	:	**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 24.4	:	**SUGGESTIONS GIVEN BY THE BoS MEMBERS**
24.4.1	:	**SEMESTER VII & VIII:** ➢ The Expert members suggested to modify the CO1 statement for the course 23EC72C Internship / In-Plant Training. ➢ In 23EC71C Mini Project and 23EC81C Capstone Project/Industry Practice, the expert members suggested that the evaluation strategy should not be same for both the courses. ➢ In 23EC81C Capstone Project/Industry Practice. Expert members informed to modify the CO1 statement. ➢ For 23EC71C Mini Project, the Expert members suggested that the problem statements under CO1 given to the students should be identified by the faculty members.
24.4.2	:	**Programme Elective Courses:** ➢ In Advanced CMOS Micro Fabrication course, the expert members suggested to include introduction of micro fabrication. Also under CO1, expert members suggested that the manufacturing process should start from 1D to 3D. This course was framed under the guidance of experts from IISC, Bangalore.

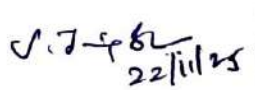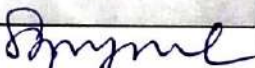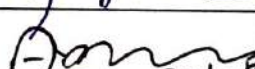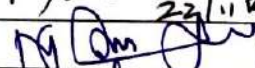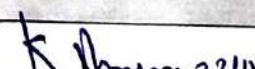|		
	:	➢ In 23EC30E Cognitive Radio and Cooperative Communication, the expert members suggested under SDR relaying concepts, security aspects may be included. Also the expert members suggested to include the recent text books. ➢ In 23EC29E 6G Communication Concepts, expert members recommended to include "Introduction to semantic communication". ➢ Expert members suggested to rename the course 23EC43E Radar Navigational Aids to Radar Sensing and Processing. ➢ Expert members suggested to rename the course 23EC41E Wireless System using SDR to Wireless System Development using SDR. ➢ For 23EC32E Design of RF Circuits & Wireless Sub Systems, the Expert members suggested to modify the CO1 statement and contents.
24.4.3		**One Credit Courses:** ➢ For VLSI System On Chip (SoC) Design, the expert members suggested that the content is heavy for one credit courses. Some of the topics may be reduced to the level of one credit courses and also include the 'Exposure of SoC boards'. This course was framed by the industry expert Dr.V.Lingasamy, Professor of Practice, Rakuten Symphony Private Ltd, Bangalore. ➢ The expert members recommended that there is a bridge/link between the courses VLSI System On Chip (SoC) Design and advanced CMOS Micro fabrication. Also the contents for both the courses could be modified.
24.4.4	:	**General Points Discussed:** ➢ Expert members suggested monitoring the conference/journal publication procedures of students by the internal team of members. Also expert members suggested that plagiarism tool should be available in the college.
		➢ Expert members suggested that the one credit courses syllabus is not only for the theoretical purpose but also include the practical contents. ➢ The expert members recommended to include LIDAR as a one credit course in future.
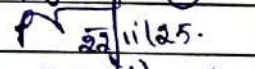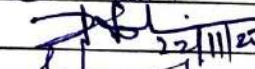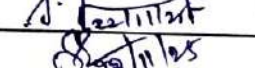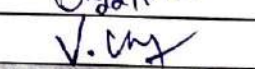
The members had a brainstorming discussion and interaction among themselves. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.
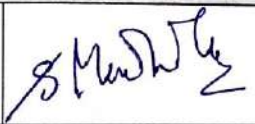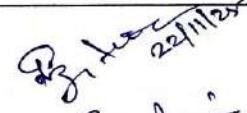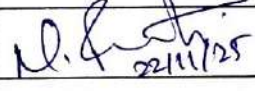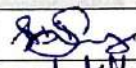
1. Syllabus for final year courses of UG degree programmes under R-2023.
2. Course design document for 6th & 7th semester courses under R-2023.
3. Syllabus for programme elective courses under R-2023
4. One Credit Courses for UG degree programmes under R-2023
5. Any other matters.

Mrs. S. Karthika, Asst. Professor/ ECE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present:

	Chairman	Signature
1.	**Dr. S.TamilSelvi,** Professor & Head, Department of ECE, National Engineering College, Kovilpatti.	
	Internal Members	
2.	Dr.S.Shanmugavel, Director	
3.	Dr.A.Shenbagavalli, Professor & Dean (Academic & Faculty Development)	
4.	Dr.T.S.Arun Samuel, Professor	
5.	Dr. K.J.PrasannaVenkatesan, Asso. Professor	
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	Academic Experts nominated by Central Institutions	
16.	**Dr.E.S.Gopi,** Professor, Department of ECE, National Institute of Technology, Tiruchirappalli.	

	Industrial Experts	
17.	**Mr.S.Madhusudhan,** Director, VlinderLabsPvt Ltd, Bengaluru - 560102.	
18.	**Mr.V.K.Rajiv,** Senior Director, Test Engineering, Tessolve, Bangalore	
19.	**Mr.JeyakantanMurugan,** Senior Engineering Leader, ZF Group, Chennai	
20.	**Mr. M.Ramesh,** Managed Technology, ~~Senior Technical Engineer~~, Data Patterns India (P) Ltd., Chennai	
21.	**Mrs.MehalaBalasundaram**, Manager, Customer Information Experience,Synopsys, Bangalore.	
	Student Members	
22.	Ms.Abhi Shree S –III ECE	
23.	Mr.ShakthiSubaraj I–III ECE	

CHAIRMAN

BOARD OF STUDIES

Dr.S.Tamil Selvi, M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engg.
National Engineering College, K.R.Nagar,
Kovilpatti – 628 503

23rd BoS ACTION TAKEN REPORT

The suggestions given by the Board of Studies Members on 31.05.2025 are successfully incorporated and the action taken is as follows.

S. No	SUGGESTIONS GIVEN BY THE BOS MEMBERS	Action Taken
1.	In 23EC61C Wireless Communication, the expert members suggested to include practical components. The members have recommended to combine the contents of small-scale fading concepts (CO3) with the large-scale fading concepts (CO2) and to include link budget calculation in CO2. The members also suggested to include some wireless standards other than mobile technology.	As per the suggestion given by BoS external members, the 23EC61C Wireless Communication, theory only course with 3-credit has been changed to integrated course, with 4 credits, incorporating a practical component of 2 hours per week. Relevant simulation experiments are introduced using tools such as MATLAB to strengthen students.
2.	For 23EC62C – Antenna and Wave Propagation, the board members suggested to add Beam forming methods in various applications of communications.	The suggestions given by board members were Implemented
3.	In 23EC63C – Artificial Intelligence and Machine Learning Course under CO1 Introduction to NLP and LLM may be included, ethical and social impact of AI and ML may be introduced, Specific application or case study relevant to electronics and communication domain might be mentioned in the course content.	Some basic theoretical topics were trimmed. A section on ECE-specific AI/ML applications has been added to illustrate the relevance of the subject to core domains.
4.	In Computer Architecture program elective course, the expert members suggested modifying CO2. Members suggested to include RISK, CISK and GPU based processor operations and their memory organisations.	The CO2 has been modified by including RISK, CISK and GPU based processor.

5.	In Optical Communication and Networks program elective course, expert members recommended to include some practical component or case study. They also suggested to include recent edition/reprint of textbooks and reference books	Experimental analysis of numerical measurements has been included with the help of LightSim simulation software.

CHAIRMAN
BOARD OF STUDIES

24th BOARD OF STUDIES MEETING - DEPARTMENT OF ECE ON 22.11.2025

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