

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

22nd Board of studies Meeting

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

Date & Time: 29.11.2024&10.00A.M

AGENDA

ECE/BoS22.1	:	Welcome address and Opening Remarks by Chairman, Board of studies of the Department of Electronics and Communication Engineering	
ECE/BoS22.2	:	Confirmation of the Minutes and action taken report of the 21 st Board of studies meeting of the Department of Electronics and Communication Engineering held on24 th May2024.	
ECE/BoS 22.3	:	Business brought forward by the Chairman, Board of studies.	
		22.3.1.	UG degree programme R-2023 V Semester syllabus.
		22.3.2.	UG degree programme R-2023 List of Verticals
		22.3.3	UG degree programme R-2023 List of Open Elective Courses
		22.3.4	UG degree programme R-2023 IV Semester Course Design Document
ECE /BoS 22.4	:	Suggestions given by the BoS Members	

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

29th November, 2024

Dear Sir/Madam,

Sub: Minutes of the 22nd Board of Studies Meeting of Department of Electronics and Communication Engineering - Reg.

The 22nd Board of studies Meeting of Department of Electronics and Communication Engineering, National Engineering College, K.R.Nagar, Kovilpatti – 628503 was held on 29th November 2024 at 10.00 A.M in the Autonomous Block 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



(Dr.S.Tamil Selvi)

School of Engineering & Technology, K.R.Nagar, Kovilpatti - 628 503

(An Autonomous Institute Affiliated to Anna University Chennai)

Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 22nd Board of Studies Meeting of the Department of Electronics and

Communication Engineering, was held on 29th November, 2024 at 10.00 A.M. in

the Autonomous Block Conference Hall, National Engineering College, K.R.Nagar,

Department of Electronics and Communication Engineering

The Board of Studies members are as follows:

Dr. S. Sankar, Professor & Head

Dr. S. Sankar, Professor & Head

Dr. S. Sankar, Professor & Head

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Dr. S. Sankar, Professor & Head

22nd BOS Meeting- Minutes

held on 29th November 2024 at 10.00 A.M

Dr. S. Sankar, Professor & Head

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Venue:Autonomous Block Conference Hall, National Engineering College

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Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 22nd Board of studies Meeting of the Department of Electronics and Communication Engineering was held on 29th November, 2024 at 10.00 A.M in the Autonomous Block 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.PrasannaVenkatesan, Asso. Prof	
6.	Mr.T.Devakumar, Asst. Professor (SG)	
7.	Dr.R.Manjula Devi, Asst. Professor (SG)	
8.	Dr.I.VivekAnand, Asst. Professor (SG)	
9.	Mr.M.Sathish Kumar, Asst. Professor (SG)	
10.	Mrs.S.Malathi, Assistant Professor	
11.	Dr.S.Lavanya, Assistant Professor	
12.	Mrs.S.Sulochana, Assistant Professor	
13.	Mrs.S.Mugunthamala, Assistant Professor	
14.	Dr.S.Subaselvi, Assistant Professor	
15.	Mrs.S.Pricilla Mary, Assistant Professor	
16.	Dr. M.Kathiresan, Professor/ Mechanical	
17.	Dr. J. Naskath, Asso.Prof/CSE	
18.	Dr.B. Venkatasamy, Asst.Prof (SG)/EEE	

19.	Mrs.M.Manimegalai, Asst.Prof/IT	
20.	Dr. V.R. Vijaykumar, Professor, Department of Electronics and Communication Engineering, Anna University- MIT Campus, Chennai.	Academic Expert nominated by Anna University, Chennai
21.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai - 600 025.	Academic Expert nominated by Academic Council
22.	Dr. P.Prakash, Professor, Dept. of ECE, Anna University- MIT Campus, Chennai- 600 025.	
23.	Dr.S.Aniruddan, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology, Chennai.	Academic Experts nominated from Central Institutions
24.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	Industrial Experts
25.	Mr.JeyakantanMurugan, Senior Engineering Leader, ZF Group, Chennai	
26.	Mrs.MehalaBalasundaram, Manager Customer Information Experience Synopsys, Bangalore - 560016.	
27.	Mr.V.K.Rajiv, Senior Director, Test Engineering, Tessolve, Bangalore	
28.	Mr. M.Ramesh, Senior Technical Engineer, Data Patterns India (P) Ltd., Chennai	
29.	Mr.SrinivasanSelvaganapathy, Head of Indian Standardisation- Networking and Communication Research Lab, Nokia, Bangalore	Alumni Expert
30.	Ms.Abhi Shree S -II ECE	Student Members
31.	Mr.SakthiSubaraj I-II ECE	

BoS/ECE 22.1	:	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 22 nd Board of Studies.
BoS/ECE 22.2	:	TO CONFIRM THE MINUTES OF 21st BOS MEETING HELD ON 24th May 2024. The minutes of the 21 st Board of Studies meeting held on 24 th May 2024 were communicated to the members. There received comments have been properly analyzed and corrections have been carried out in the syllabus. Then it was presented in 21 st Academic Council meeting held on 22 nd June 2024 and the same was approved. ➤ Action Taken Report (Enclosed in Annexure I)
BoS/ECE 22.3.1	:	Consider and approve the syllabus of V semester U.G. degree programme (B.E) under R-2023 Resolved to approve the syllabus of V semester U.G. degree programme (B.E) under R-2023
BoS/ECE 22.3.2	:	Consider and approve the List of Verticals of U.G. degree programme (B.E) under R-2023 Resolved to approve the List of Verticals U.G. degree programme (B.E) under R-2023

BoS/ECE 22.3.3	:	Consider and approve the List of Open Elective Courses of UG degree programme R-2023
		Resolved to approve the List of Open Elective Courses of UG degree programme R-2023
BoS/ECE 22.4	:	Consider and approve the IV Semester Course Design Document for UG degree programme R-2023
		Resolved to approve the IV Semester Course Design Document for UG degree programme R-2023
BoS/ECE 22.5	:	Consider and approve the experiential learning course Smart System Design and Prototyping and also a programme elective course Radar System Designsuggested by M/s. Data Patterns Private Ltd, Chennai in R2019 curriculum.
BoS/ECE 22.6	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
22.6.1	:	<p><u>SEMESTER V:</u></p> <ul style="list-style-type: none"> ➤ Expert members suggested to swap the V semester 23EC54C Antenna and Wave Propagation and VI semester 23EC62C Control Systems. ➤ Expert members felt that the syllabus is too heavy for the course 23EC51C Digital Communication. They suggested to reduce the syllabus content or to increase the contact hours. The members recommended to swapCO4 and CO5 content. Also suggested to list the experiments to be conducted for the laboratory components. Members also recommended to add latest references, edition and recommended to include other university/open source references. ➤ In 23EC53C VLSI Design, CMOS layout may be added under CO1 syllabus content.

		<ul style="list-style-type: none"> ➤ As per expert members recommendations 23EC62C Control Systems is moved to V semester and the subject code is changed as 23EC54C Control Systems and also the syllabus for 23EC54C Control Systems was approved by the board. ➤ Expert members recommended to fine tune the 23EC55C Simulation Using Modern Tools with the guidance of industrial persons. They have suggested to mention two or three simulation domains for the students to develop the simulation model. Also recommended to clearly mention the assessment process.
22.6.2	:	<p>VERTICALS</p> <ul style="list-style-type: none"> ➤ Expert members suggested to include the following course in the Embedded Domain Verticals: Embedded System Software course instead of Biomedical Application for Embedded Systems and Risk Architecture for Embedded Engineers instead of Cortex- M. ➤ Expert members suggested to include Speech Signal Processing in the Signals and Image Processing Verticals. ➤ Expert members recommended to include Cellular Technology Air Interface, 6G and 5G Beam forming in the RF & Communication Domain Verticals. ➤ For the IOT verticals expert members suggested to pass the following courses in Mechanical Engineering Board: Intelligent Systems and Machine Learning, Fundamentals of Mechatronics and Robotics and Smart

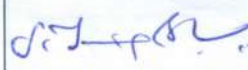
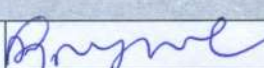
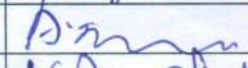
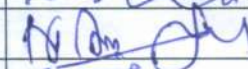
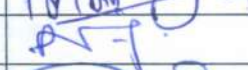
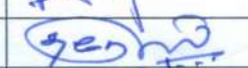



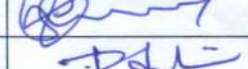


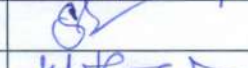
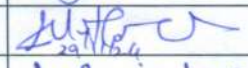
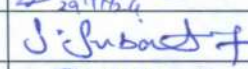
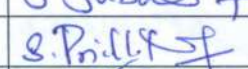
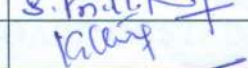



		<p>System Design and Prototyping. They also suggested to change the course title Python Programming for IOT. Also the expert members strongly mentioned that, while choosing the courses listed under IOT verticals students must be carefully guided and have to check that, there should not be any overlapping of syllabus content of the program elective course and the IOT verticals course.</p>
22.6.3	:	<p><u>Common Suggestions Given by the Expert Members</u></p> <ul style="list-style-type: none"> ➤ Expert members suggested to have industrial members as external evaluator for the course 23EC46C System Modelling Project. They also suggested to list two or three domains in which students can choose the project and also recommended to get input from the industry to list out the problems for system modelling. They also recommended to properly check the fundamental knowledge of students before assigning the project to the students. They suggested not to mention more than one CAD tool for the simulation, they recommended to make use of MATLAB as a tool for all the simulation models. ➤ Expert members suggested to give application oriented assessments for all the Integrated Courses. They mentioned that such assessments will be able to check the concept level understanding of students and also make them to think, analyse where such concepts may be applied in the real world scenario.

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.


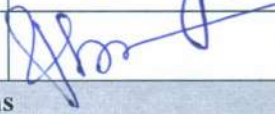

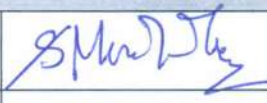

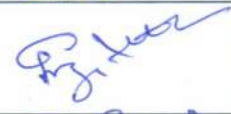
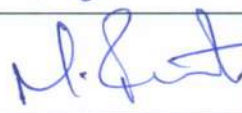


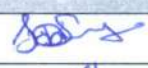

1. Core Courses for the 5th semesters of UG degree programmes under R-2023.
2. Elective Courses for UG degree programmes under R-2023.
3. Proposed Verticals in UG degree programmes under R-2023, along with the syllabus.
4. Open elective Courses in UG degree programmes under R-2023
5. UG degree programme R-2023 IV Semester Curriculum Frame Structure
6. Any other matter.

Dr.R.Manjula Devi, Asst. Professor (SG)/ 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.	
Internal Members		
2.	Dr.S.Shanmugavel, Director	
3.	Dr.A.Shenbagavalli, Professor & Dean (Academic)	
4.	Dr.T.S.Arun Samuel, Professor	
5.	Dr. K.J.PrasannaVenkatesan, Asso. Professor	
6.	Mr.T.Devakumar, Asst. Professor (SG)	
7.	Dr.R.Manjula Devi, Asst. Professor (SG)	
8.	Dr.I.VivekAnand, Asst. Professor (SG)	
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16.	Dr. M.Kathiresan, Professor/ Mechanical	
17.	Dr. J. Naskath, Asso.Prof/CSE	
18.	Dr.B. Venkatasamy, Assistant Professor (SG)/EEE	
19.	Mrs.M.Manimegalai, Assistant Professor /IT	
Academic Expert nominated by Anna University, Chennai		
20.	Dr. V.R. Vijaykumar, Professor, Department of Electronics and Communication Engineering, Anna University- MIT Campus, Chennai.	

29/11/24

Academic Experts nominated by Academic Council		
21.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai	
22.	Dr. P.Prakash, Professor, Dept. of ECE, Anna University- MIT Campus, Chennai	
Academic Experts nominated by Central Institutions		
23.	Dr.S.Aniruddan, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology, Chennai.	
Industrial Experts		
24.	Mr.S.Madhusudhan, Director, VlinderLabs Pvt Ltd, Bengaluru - 560102.	
25.	Mr.V.K.Rajiv, Senior Director, Test Engineering, Tessolve, Bangalore	
26.	Mr.Jeyakantan Murugan, Senior Engineering Leader, ZF Group, Chennai	
27.	Mr. M.Ramesh, Senior Technical Engineer, Data Patterns India (P) Ltd., Chennai	
28.	Mrs.Mehala Balasundaram, Manager- Customer, Information Experience, Synopsys, Bangalore	
Alumni Expert		
29.	Mr.Srinivasan Selvaganapathy, Head of Indian Standardisation- Nokia- Standards Std& IE, Networking and Communication Research Lab, Nokia, Bangalore	
Student Members		
30.	Ms.S.Abhi Shree –II ECE	
31.	Mr.ISakthiSubaraj–II ECE	



CHAIRMAN
BOARD OF STUDIES

22nd BOARD OF STUDIES MEETING - DEPARTMENT OF ECE ON 29.12.2024

