

## Department of Electronics and Communication Engineering

MINUTES of the 20<sup>th</sup> Meeting of the Board of Studies held on  
24<sup>th</sup> November 2023, 11:15 am

Venue: 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**

20<sup>th</sup> Board of studies Meeting of the Department of  
**Electronics and Communication Engineering**

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

**Date & Time:** 24.11.2023 & 11.15 A.M

**AGENDA**

ECE/BoS 20.1	:	Welcome address and Opening Remarks by Chairman, Board of studies of the Department of Electronics and Communication Engineering
ECE/BoS 20.2	:	Confirmation of the Minutes and action taken report of the 19 <sup>th</sup> Board of studies meeting of the Department of Electronics and Communication Engineering held on 30 <sup>th</sup> June 2023.
ECE/BoS 20.3	:	Business brought forward by the Chairman, Board of studies.
		20.3.1. UG degree programme R-2023 modified Curriculum structure
		20.3.2. UG degree programme R-2023 II Semester syllabus.
		20.3.3 UG degree programme R-2023 III Semester syllabus.
ECE /BoS 20.4	:	Suggestions given by the BoS Members

**National Engineering College, K.R. Nagar, Kovilpatti – 628 503**  
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F. No. 1-1/NEC/Branch/ECE

24<sup>th</sup> November, 2023

Dear Sir/Madam,

**Sub: Minutes of the 20<sup>th</sup> Board of Studies Meeting of Department of Electronics and Communication Engineering - Reg.**

The 20<sup>th</sup> Board of studies Meeting of Department of Electronics and Communication Engineering, National Engineering College, K.R.Nagar, Kovilpatti – 628503 was held on 20<sup>th</sup> November 2023 at 11.15 A.M in the 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

*S.J. - T/S*  
6/12/23.  
(Dr.S.Tamil Selvi)

# National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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Department of Electronics and Communication Engineering

## MINUTES OF THE MEETING

The 20<sup>th</sup> Board of studies Meeting of the Department of Electronics and Communication Engineering was held on 24<sup>th</sup> November, 2023 at 11.15 A.M in the 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)	
4.	Dr.T.S.Arun Samuel, Professor	
5.	Dr. N.Arumugam, Asso. Professor	
6.	Dr. K.J.Prasanna Venkatesan, Asso. Professor	
7.	Dr.C.Balamurugan, Asso. Professor	
8.	Mr.T.Devakumar, Asst. Professor (SG)	
9.	Mr.S.Cammillus, Asst. Professor (SG)	
10.	Dr.R.Manjula Devi, Asst. Professor (SG)	
11.	Dr.I.Paulkani, Assistant Professor	
12.	Mrs.S.Sulochana, Assistant Professor	
13.	Mrs.C.K.Balasundari, Assistant Professor	
14.	Dr. R.A. Alaguraja Professor, Department of ECE, Thiagarajar College of Engineering, Madurai – 625 015	Academic Expert nominated by Anna University, Chennai
15.	Dr.S.Aniruddhan, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai.	Academic Expert
16.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering,	Academic Experts

	Anna University, Chennai – 600 025.	
17.	Dr.R.Pandeeswari, Associate Professor, Department of ECE, NIT Trichy – 620 015.	
18.	Dr.J.Klutto Milleth, Chief Technologist, Centre of Excellence in Wireless Technology, IIT Madras Research Park, Chennai – 600113.	Meritorious Alumni
19.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	Industrial Experts
20.	Mr. Sethuraman Thangavelu Senior Manager (Software), VVDN Technologies Pvt Ltd, Chennai.	
21.	Mr.Rajiv V.K, Senior Director, Test Engineering Tessolve Semiconductor Pvt Ltd, Bengaluru.	
22.	Mrs.Mehala Balasundaram, Technical Staff Writer, Synopsys, Bangalore - 560016.	Special Invitee
23.	Mr.S.K.Ganapathy, IV Year ECE	Student Members
24.	Ms. M.Ishwarya Poorani, III YEAR ECE	

BoS/ECE 20.1	:	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 20 <sup>th</sup> Board of Studies.
BoS/ECE 20.2	:	TO CONFIRM THE MINUTES OF 19 <sup>th</sup> BOS MEETING HELD ON 30 <sup>th</sup> June 2023.
		The minutes of the 19 <sup>th</sup> Board of Studies meeting held on 30 <sup>th</sup> June 2023 were communicated to the members. The received comments have been properly analyzed and corrections have

	<p>been carried out in the syllabus.</p> <p>Then it was presented in 19<sup>th</sup> Academic Council meeting held on 15<sup>th</sup> July 2023 and the same was approved.</p> <p>➤ Action Taken Report (Enclosed in <i>Annexure D</i>)</p>
BoS/ECE 20.3.1	<p><b>Approve the modified Curriculum structure of U.G. degree programme (B.E) under R-2023</b></p> <p>Resolved to approve the modified Curriculum structure of U.G. degree programme (B.E) under R-2023</p>
BoS/ECE 20.3.2	<p><b>Consider and approve the syllabus of II semester U.G. degree programme (B.E) under R-2023</b></p> <p>Resolved to approve the syllabus of II semester U.G. degree programme (B.E) under R-2023</p>
BoS/ECE 20.3.3	<p><b>Consider and approve the syllabus of III semester U.G. degree programme (B.E) under R-2023</b></p> <p>Resolved to approve the syllabus of III semester U.G. degree programme (B.E) under R-2023</p>
BoS/ECE 20.4	<p><b>SUGGESTIONS GIVEN BY THE BOS MEMBERS</b></p>
20.4.1	<p><b><u>SEMESTER II:</u></b></p> <ul style="list-style-type: none"> <li>➤ The title of the course “23EC22C-Materials Science” may be changed and the credits may be reduced from ‘3’ to ‘2’.</li> <li>➤ The course titled “Linear Algebra and complex Analysis” may be included instead of “23EC21C-Fourier Series and Mathematical Transforms” and also the credit for the course may be reduced from ‘4’ to ‘3’.</li> <li>➤ For ECE students, the course titled “23ME11C- Engineering Graphics” may be removed and combined with the course titled “23EC64C-Product Development Practice” (SEM VI). The CAD simulation tool may be included in this course or the existing course may be retained with reduced credit.</li> <li>➤ In the course titled “23EC23C- Circuit Analysis”, different CO statements for theory and practical component may be avoided. It is suggested to follow same CO statement for both theory and practical component. The practical</li> </ul>

	<p>component for CO4 is missing, so it may be included for CO4.</p>
20.4.2	<p><b><u>SEMESTER III:</u></b></p> <ul style="list-style-type: none"> <li>➤ Expert members felt that Semester III is heavily loaded for the students and suggested to move few courses to higher or lower semester.</li> <li>➤ Expert members suggested to add more references in the course titled "23EC31C-Electromagnetic Waves". Also they suggested that it is too early to study "23EC31C-Electromagnetic Waves" in Semester III and suggested to move it to Semester IV</li> <li>➤ Laboratory component may be included in the course titled "23EC32C-Signals and Systems" or one of the assessments may be included based on the simulation software.</li> </ul>
20.4.3	<ul style="list-style-type: none"> <li>➤ Board chairman proposed for replacing of three credits in program elective course by students publications in one Scopus indexed journal. Experts suggested to frame the norms for evaluating the quality of publication and journal through internal members for transferring the credits.</li> </ul>
20.4.4	<p><b>Suggestions by Student members:</b></p> <ul style="list-style-type: none"> <li>➤ Students suggested that more core courses may be included in the Sem II. Hence, they can interact with the faculty members from department and gain more knowledge in core courses.</li> <li>➤ Also suggested to provide awareness program related to NPTEL courses along with content by which they can easily identify and gain knowledge by registering the courses and transfer the credits.</li> </ul>

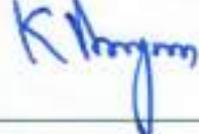
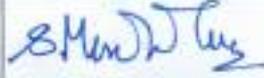
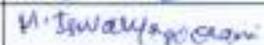
The members had a brainstorming discussion and interaction among themselves. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

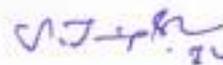
1. UG degree programme R-2023 Curriculum structure.
2. UG degree programme R-2023 II semester syllabus.
3. UG degree programme R-2023 III semester syllabus.
4. Any other matter.

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.	<i>S. Tamil Selvi</i> 24/11/23
Internal Members		
2.	Dr.S.Shanmugavel, Director	<i>S. Shanmugavel</i>
3.	Dr.A.Shenbagavalli, Professor & Dean (Academic)	<i>A. Shenbagavalli</i>
4.	Dr.T.S.Arun Samuel, Professor	<i>T.S. Arun Samuel</i>
5.	Dr. N.Arumugam, Asso. Professor	<i>N. Arumugam</i>
6.	Dr. K.J.Prasanna Venkatesan, Asso. Professor	<i>K.J. Prasanna Venkatesan</i>
7.	Dr.C.Balamurugan, Asso. Professor	<i>C. Balamurugan</i>
8.	Mr.T.Devakumar, Asst. Professor (SG)	<i>T. Devakumar</i>
9.	Mr.S.Cammillus, Asst. Professor (SG)	<i>S. Cammillus</i>
10.	Dr.R.Manjula Devi, Asst. Professor (SG)	<i>R. Manjula Devi</i>
11.	Dr.I.Paulkani, Assistant Professor	<i>I. Paulkani</i>
12.	Mrs.S.Sulochana, Assistant Professor	<i>S. Sulochana</i>
13.	Mrs.C.K.Balasundari, Assistant Professor	<i>C.K. Balasundari</i>
Academic Expert nominated by Anna University, Chennai		
14.	Dr. R.A. Alaguraja Professor, Department of ECE, Thiagarajar College of Engineering, Madurai - 625 015	<i>R.A. Alaguraja</i> 24/11/23

Academic Experts		
15.	Dr.S.Aniruddhan, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai.	
16.	Dr.K.Murugan, Professor, Ramanujan Computing Centre, College of Engineering, Anna University, Chennai - 600025.	
17.	Dr.R.Pandeeswari, Associate Professor, Department of ECE, NIT, Trichy - 620015.	
Meritorious Alumnus		
18.	Dr.J.Klutto Milleth, Chief Technologist, Centre of Excellence in Wireless Technology, IIT Madras Research Park, Chennai - 600113.	
Industrial Experts		
19.	Mr.S.Madhusudhan, Director, Vlinder Labs Pvt Ltd, Bengaluru - 560102.	
20.	Mr. Sethuraman Thangavelu, Sr Manager (SW) VVDN Technologies, Chennai	
21.	Mr. V.K.Rajiv, Senior Director, Test Engineering Tessolve Semiconductor Pvt Ltd, Bengaluru.	
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 24/11/23

CHAIRMAN

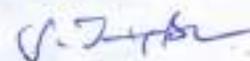
BOARD OF STUDIES

## Annexure - I

### Minutes of 19<sup>th</sup> BoS Meeting - Action Taken Report

S. No	Suggestion given by expert members	Action taken
1.	<ul style="list-style-type: none"><li>➤ In the "19EC72E - Theory and applications of Blockchain" elective course under Regulation 2019, block chain and its evolution can be introduced in Unit III.</li><li>➤ Experts suggested to remove the last line ("to prevent these") in the Unit V. Hyperledger may be removed from tutorial and Mearkle tree can be included in the assignment instead of assignment no.4.</li></ul>	Implemented
2.	<ul style="list-style-type: none"><li>➤ In Sem I, the course titled "Introduction to Electronics and Communication Engineering" may be changed to "Introduction to Engineering".</li><li>➤ In Sem I, the course titled "C programming" may be changed to "Problem Solving using programming languages".</li></ul>	Implemented
3.	<ul style="list-style-type: none"><li>➤ The courses titled "Electromagnetic Waves" in Sem III and courses title "Transmission Lines and Waveguides" in Sem IV may be combined to one course.</li></ul>	Implemented
4.	<ul style="list-style-type: none"><li>➤ The course titled "Product, Patent and Literature Review" is too advanced for the 3<sup>rd</sup> semester students. Instead of considering it as Integrated Laboratory and Project (ILP) Course it may be changed to theory only course with titled as "Design thinking life cycle or Patent, Copyright &amp; Trademark". It may be moved to higher semester.</li><li>➤ The course titled "Probability Random Process and Queuing Theory" may be changed to "Probability and Random Processes".</li></ul>	Implemented

	➤ Experts suggested to move the course titled "Microprocessor and Microcontroller" from Sem V to Sem III and the course titled "Computer Networks" can be included in Sem IV.	
5.	➤ Cloud, Artificial Intelligence and Machine Learning can be included as programme core courses in the curriculum.	Implemented



**CHAIRMAN  
BOARD OF STUDIES**