

Department of Electrical and Electronics Engineering

**MINUTES 20th Meeting of the Board of studies held on
01st December 2023 at 11.00 AM**

Venue: Conference Hall, National Engineering College

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

Department of Electrical and Electronics Engineering

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20th Board of studies Meeting in the Department of **Electrical and Electronics Engineering**

Venue: Conference Hall, National Engineering College

Date & Time:01.12.2023 &11.00 AM

AGENDA

BoS / EEE 20.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Electrical and Electronics Engineering
BoS / EEE 20.2	:	Confirmation of the Minutes of the 19 th meeting of Board of Studies in the Department of Electrical and Electronics Engineering held on 30.06.2023 and Action Taken report of 19 th meeting of Board of studies.
BoS / EEE 20.3	:	Business brought forward by the Chairman, Board of studies
	20.3.1	Courses and syllabus for the III semester UG (B.E-EEE), Degree Programme under R-2023
	20.3.2	List of Programme Elective Courses for UG Degree Programme under R-2023
	20.3.3	Programme Elective Courses and syllabus for the PG (M.E-HVE) Degree Programme under R-2023
BoS / EEE 20.4		Any other Agenda brought forward by the Chairperson.
BoS / EEE 20.5	:	Suggestions given by the BoS Members

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F. No. 1-1/NEC/EEE.

01st December, 2023


Dear Sir/Madam,

Sub: Minutes of the 20th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 20th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 01st December, 2023 at 11.00 AM in Conference Hall of National Engineering college..

It is requested that comments on the Minutes, if any, may please be sent by email at hodeee@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed.

Yours Sincerely


Dr. M. Willjuice Iruthayarajan

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg.
National Engineering College
Kovilpatti - 628 503

Department of Electrical and Electronics Engineering

MINUTES OF THE MEETING

The 20th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 01st December, 2023 at 11.00 AM in National Engineering College,

Venue: Conference Hall, National Engineering College

The following members were present:

1.	Dr.M.WilljuiceIruthayarajan Professor and Head/ EEE	Chairman
2.	Dr.R.V.Maheswari Professor/ EEE	
3.	Dr.S.Sankarakumar Assistant Professor(S.G) / EEE	
4.	Mr.J.Thangaraj Assistant Professor / EEE	
5.	Dr. R.Francis, Associate Professor/EEE, Government College of Engineering, Bargur.	University Nominee
6.	Dr.P.S.Manoharan, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai, Tamilnadu.	Academic Expert
7.	Dr. Rajesh Joseph Abraham Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, Kerala.	
8.	Dr. M.P.Selvan Professor & Head Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli.	
9.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	Industrial Expert
10.	Mr.Muthu Senthilkumar Sr.Lead Engineer, Mahindra & Mahindra Limited, Chennai.	

11.	Mr. Ramesh Manager Technology, Hardware Design and Development Data Patterns India Pvt. Ltd., Chennai.	
12.	Mr.R.Pandiya Rajan, Project Lead, Mistral Solutions Private Limited, Bangalore	
13.	Mr.Ragupathy Ramachandran, Senior product Manager, ESAB India Limited, Chennai.	Meritorious Alumnus
14.	S. Ragul, Final Year/EEE	Student Member
15.	R. Vaishnavi, Pre Final Year/EEE	

The industrial expert Mr.V.Karthikeyan, Associate Director - Tessolve Semiconductor Private Limited, Bangalore, internal members Dr.L.Kalaivani, Professor/EEE, and Dr.N.B.Prakash, Professor/EEE, could not attend the meeting due to their prior commitments and unavoidable reasons and granted leave of absence.

BoS / EEE 20.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
		The Chairman, BOS of the Electrical and Electronics Engineering welcomed and introduced the members of 20 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / EEE 20.2	:	TO CONFIRM THE MINUTES OF NINETEENTH BOS MEETING HELD ON 30 th JUNE 2023.
		The minutes of the Nineteenth Board of Studies meeting held on 30 th June 2023 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 30.06.2023 The comments received have been incorporated and placed for confirmation. The same was approved by the 19 th Academic council. Action Taken Report (Enclosed in Annexure I)
BoS / EEE 20.3.1	:	TO CONFIRM AND APPROVE COURSES AND SYLLABUS FOR THE III SEMESTER UG (B.E-EEE), DEGREE PROGRAMME UNDER R-2023

		RESOLVED TO approve the Courses and syllabus for the III semester UG (B.E-EEE), Degree Programme under R-2023
BoS/EEE 20.3.2	:	TO CONFIRM AND APPROVE THE LIST OF PROGRAMME ELECTIVE COURSES FOR UG (B.E-EEE), DEGREE PROGRAMME UNDER R-2023
		RESOLVED TO approve the List of Programme Elective Courses for UG (B.E-EEE), Degree Programme under R-2023
BoS/EEE 20.3.3	:	TO CONFIRM AND APPROVE THE PROGRAMME ELECTIVE COURSES AND SYLLABUS FOR THE PG (M.E-HVE) DEGREE PROGRAMME UNDER R-2023
		RESOLVED TO approve the Programme Elective Courses and syllabus for the PG (M.E-HVE) Degree Programme under R-2023
BoS/EEE 20.4	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS
		<ul style="list-style-type: none"> • The members suggested conducting an awareness class and providing an action plan to students on product development life cycle (PDLC) and its stages before registering for the course. • They also suggested that to create awareness, the curriculum can incorporate case studies, real-world examples, and hands-on projects. • Guest lectures from industry professionals and workshops on different PDLC stages can also be arranged for students. They also said that nurturing a project-based learning environment allows the students to apply PDLC concepts in practical scenarios. • They insisted on encouraging interdisciplinary teams for project work.








BoS/EEE 20.5	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
B.E-EEE		
BoS/EEE 20.5.1	:	<ul style="list-style-type: none"> • In the course “ Electromagnetic Fields”, the topic integral theorems of vectors in CO1 may be given as divergence and Stokes theorem. • In CO3, Magnetostatic Energy and Energy density – Magnetic circuits may be included. • In CO4, a Faraday Disc generator can be included.
BoS/EEE 20.5.2	:	<ul style="list-style-type: none"> • In the course “ DC Machines and Transformers”, the load test on three three-phase transformer experiments should be included in CO7. • In CO4, the PMDC motor may be removed.
BoS/EEE 20.5.3	:	<ul style="list-style-type: none"> • In the “ Measurement and Instrumentation” course, hall effect transducer may be included in CO4. • The CO8 statement may be “design the DC and AC bridges for measuring electrical parameters”.
BoS/EEE 20.5.4	:	<ul style="list-style-type: none"> • In the course “Electron Devices and Circuits”, Laser diodes, optocouplers and Analysis of data sheet parameters can be included in CO1. • Experiments on the Design of the switching regulator can be included in CO10.
BoS/EEE 20.5.5	:	<ul style="list-style-type: none"> • Courses like Illumination Engineering, Electromagnetic Interference and Electromagnetic Compatibility, Thermal Engineering in Electrical Systems may be given as a programme elective courses.
M.E-HVE		
BoS/EEE 20.5.5	:	<ul style="list-style-type: none"> • In the course, “ Design of Substations”, Mixed technology switchgear (MTS) substation may be included in CO1, CO2 and CO3. • Fundamental concepts , layout and Insulation coordination of MTS can be included in syllabus.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

Dr. S.Sankarakumar, Asst.Professor(SG)/EEE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

CHAIRMAN		
1.	Dr.M.WiljuiceIruthayarajan Professor and Head/ EEE	<i>Y. Wiljuice Iruthayarajan</i> 11/14/2023
INTERNAL MEMBERS		
2.	Dr.R.V.Maheswari Professor/ EEE	<i>R.V. Maheswari</i> 01/12/23
3.	Dr.S.Sankarakumar Assistant Professor(S.G) / EEE	<i>S. Sankarakumar</i> 1/12/23.
4.	Mr.J.Thangaraj Assistant Professor / EEE	<i>J. Thangaraj</i> 01/12/23
UNIVERSITY NOMINEE		
5.	Dr. R.Francis, Associate Professor/EEE, Government College of Engineering, Bargur.	<i>R. Francis</i> 01/12/23
ACADEMIC EXPERT		
6.	Dr.P.S.Manoharan, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai, Tamilnadu.	<i>P.S. Manoharan</i> 01/12/2023
7.	Dr. Rajesh Joseph Abraham Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, Kerala.	<i>Rajesh Joseph Abraham</i> 01/12/2023
8.	Dr. M.P.Selvan Professor & Head Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli.	<i>M.P. Selvan</i> 01/12/23

INDUSTRIAL EXPERT		
9.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	
10.	Mr.Muthu Senthilkumar Sr.Lead Engineer, Mahindra & Mahindra Limited, Chennai.	
11.	Mr. Ramesh Senior Technical Engineer, - <i>Manager Technology.</i> Hardware Design and Development Data Patterns India Pvt. Ltd., Chennai.	
12.	Mr.R.Pandiya Rajan, Project Lead, Mistral Solutions Private Limited, Bangalore	
MERITORIOUS ALUMNUS		
13.	Mr.Ragupathy Ramachandran, Senior product Manager, ESAB India Limited, Chennai.	
STUDENT MEMBER		
14.	S. Ragul, Final Year/EEE	
15.	R. Vaishnavi, Pre Final Year/EEE	


EEE Board Chairman

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg
National Engineering College
Kovilpatti - 628 503

20th BOARD OF STUDIES MEETING - DEPARTMENT OF EEE ON 01.12.2023

