



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

5th UG - Board of Studies Meeting in the department of
Electronics and Communication Engineering

for the Programme
B.Tech – Electronics and Communication Engineering

Venue

Seminar Hall, Department of ECE
Sri Manakula Vinayagar Engineering College
Madagadipet, Puducherry – 605 107

Date & Time

17-09-2022 & 10.30 am

BOARD OF STUDIES MEETING

The Fifth Board of Studies meeting for B.Tech. Electronics and Communication Engineering was held on 17th September 2022 at 10:30 am in the Seminar Hall, Department of ECE, Sri Manakula Vinayagar Engineering College, with the Head of the Department in the Chair.

The following members were present for the BoS meeting in the venue.

Sl. No	Name of the Member	Designation
1	Dr. P. Raja Professor and Head, Department of ECE	Chairman
2	Mr. C. Gnanavel General Manager, Production and Technology, Lenovo India Ltd., Puducherry	Industry Member
3	Dr. R. Ramya , Professor/ ECE Specialization: ECE	Member
4	Dr. J. Pradeep , Associate Professor / ECE Specialization: Image Processing	Member
5	Dr. R. Kurinjimalar , Associate Professor / ECE Specialization: Mobile Satellite Communication	Member
6	Dr.N.Jothy Associate Professor / ECE Specialization: Wireless Communication	Member
7	Prof. R. Ilayaraja Assistant Professor Specialization: VLSI Design	Member

Department of ECE – Fifth BoS Meeting

8	Prof. Egalite Francis , Assistant Professor Specialization: Mathematics	Member
9	Prof. K. Oudayakumar , Associate Professor Specialization: Physics	Member
10	Dr. S. Deepa , Professor Specialization: Chemistry	Member
11	Dr. D. Jaichithra , Professor and Head Specialization: English	Member
12	Mr. G. Dharanidharan Birlasoft Limited, Old Mahabalipuram Road, Chennai – 600096	Alumni Member

The following members were present in the online platform

Sl. No	Name of the Member	Designation
1	Dr. Gerardine Immaculate Mary Professor, Department of Embedded Systems, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India	Expert Member (University Nominee)
2	Dr. N. Venkateswaran Professor, Department of ECE, SSN - College of Engineering, Kalavakkam, Tamil Nadu, India	Expert Member (Academic Council Nominee)
3	Dr. V. R. Vijayakumar Associate Professor & Head, Department of ECE, Anna University, Regional Campus, Coimbatore	Expert Member (Academic Council Nominee)

AGENDA OF THE MEETING

BoS /2022/UG/ECE 5.1

To review and confirm the minutes of the Fourth BoS meeting held on 26th February 2022

BoS /2022/UG/ECE 5.2

To consider and approve syllabi VIII semester of B.Tech. ECE is to be offered under Regulations 2020 for the students admitted in the academic year 2020 - 21

BoS /2022/UG/ECE 5.3

To ratify the professional and open electives chosen by VII semester students admitted for the academic year 2019–20 in accordance with Regulations 2019

BoS /2022/UG/ECE 5.4

Any other item with the permission of the chair

MINUTES OF THE MEETING

Dr. P. Raja, Chairman, BoS opened the meeting with a warm welcome and thanked all the members for accepting the 5th BoS meeting Invitation for the B.Tech – Electronics and Communication Engineering program. The Chairman proceeded to the meeting subsequently and discussed the agenda items.

**BoS / UG /
ECE 5.1**

To review and confirm the fourth BoS meeting minutes held on 26th February 2022

The Fourth BoS Meeting for B.Tech.- Electronics and Communication Engineering under Regulations 2020 and Regulations 2019 was held on 26th February 2022. The Members had reviewed the Minutes of fourth BoS Meeting, and it was approved

Minutes are Reviewed and Confirmed

**BoS / UG /
ECE 5.2**

To consider and approve syllabi VIII semester of B.Tech. ECE is to be offered under Regulations 2020 for the students admitted in the academic year 2020 - 21

Members have discussed the syllabi of semesters VIII of B.Tech- Electronics and Communication Engineering under Regulation 2020, and the suggestions were provided course wise accordingly

Course-wise suggestions for the semester- VIII under Regulations 2020

1. Cyber Physical System(U20ECT81)

Members recommended changing the course title to “Cyber Physical System and Security” instead of the course title “Cyber Physical System”. Related security concepts to be included in the course syllabus.

Suggestions to Professional Elective V (U20ECE8XX)

1. High Speed Electronics (U20ECE82)

Members suggested doing slight modifications in the syllabus since the contents are fully based on semiconductors and also informed to provide practical applications related to the courses

2. Machine Learning for Wireless Communication (U20ECE82)

Members discussed the addition of machine learning algorithms. Members suggested changing the title as Machine Learning and its Applications.

3. Virtual and Augmented Reality(U20ECE823)

Members recommended to change the title of the paper as “Augmentation and Virtual Reality” and need to include Augmentation in the content of the syllabus.

Suggestions to Professional Elective VI (U20ECT8XX)

1.VLSI for Wireless Communication(U20ECE826)

Members approved the syllabus in VLSI for Wireless Communication in Unit- IV, and the subtopics need to be included.

2.5G Wireless Communication Systems (U20ECE827)

Members Propounded to include the channel model in Unit-II.

3. Biomedical Electronics (U20ECE828)

Members proposed to include Unit III as Calibration of Medical Equipment

4. Advanced Digital Image Processing (U20ECE829)

Members suggested replacing unit –IV with Video Analytics

All the suggestions will be considered and will be updated in the respective courses. The details are given in **Annexure - I**

Approved with Minor corrections and Recommended to Academic Council

**BoS / UG /
ECE 5.3**

To ratify the professional and open electives chosen by VII semester students admitted for the academic year 2019–20 by Regulations 2019.

As per the Regulations, each student shall choose one professional elective in semester VII in consultation with the Class Advisor, Programme Academic Coordinator and the HoD. The opted elective course will be offered only if the number of students opted for that course is not less than 30. However, if the student's enrollment in a class is less than 30, the head of the department will decide on the elective course.

List of Professional Elective IV (U19ECE7X)

1. CAD for VLSI Circuits (U19ECE71)
2. Satellite Communication (U19ECE72)
3. Fuzzy Logic and Neural Network (U19ECE73)
4. Wireless Sensor Networks (U19ECE75)

List of Open Elective

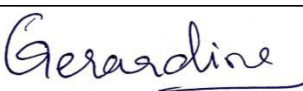
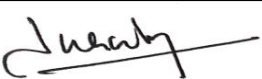
1. Hybrid and Electrical Vehicle (U19EEO75)
2. Data Science using python (U19CCO75)
3. Artificial Intelligence Applications (U19ADO74)
4. Industrial Automation (U19ICO75)

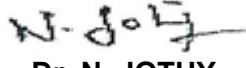
The details of students offered the electives are given in **Annexure – II**.

BoS / UG / ECE 5.4 **Any other item with the permission of the chair**

- Chairman asked about the new curriculum in line with NEP-2020. Members suggested providing more inter-disciplinary courses
- The members proposed to consider 40 percentage of internal members and 60 percentage of external members for evaluation
- The expert members suggested including theory and laboratory Integrated courses in the syllabus
- The members recommended to include more computer-oriented courses in the syllabus, and the overall credit should be a maximum of 160
- Syllabus formation for the next academic year will be meeting the industrial requirements, which was a well-defined syllabus and future technologies can be added

Dr. P. Raja, Chairman – BoS and Head of Department, Electronics and Communication Engineering, concluded the meeting at 12.30 pm with the vote of thanks.

 Dr. P. RAJA Board Chairman - ECE	
 Dr. GERARDINE IMMACULATE MARY Professor, Department of Embedded Systems, Vellore Institute of Technology (VIT), Vellore (Expert Member - University Nominee)	
 Dr. N. VENKATESWARAN Professor, Department of ECE, SSN College of Engineering, Kalavakkam (Expert Member – AC Nominee)	 Dr. V. R. VIJAYAKUMAR Associate Professor & Head, Department of ECE, Anna University, Regional Campus, Coimbatore (Expert Member – AC Nominee)
 Mr. C. GNANAVEL Manager, Production and Technology, Lenovo India Ltd., Puducherry (Industry Member)	 Mr. DHARANIDHARAN. G Associated Functional Consultant, Birlasoft Limited, Chennai (Alumni Member)

 Dr. R. RAMYA Professor/ ECE (Member)	 Dr. R. KURINJIMALAR Associate Professor / ECE (Member)
 Dr. J. PRADEEP Associate Professor / ECE (Member)	
 Prof. R. ILAIYARAJA, Assistant Professor / ECE (Member)	 Dr. N. JOTHY Associate Professor / ECE (Member)
 Dr. D. JAICHITHRA Professor / English (Member)	 Prof. K. OUDAYAKUMAR Associate Professor / Physics (Member)