



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(An Autonomous Institution)
Puducherry



Sixth BoS Meeting

July 21, 2023 (Friday)

Seminar Hall,

Department of Electronics and Communication Engineering

B.Tech - Electronics and Communication Engineering



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry - 605 107

*6th 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

21-07-2023 & 10.00 am

BOARD OF STUDIES MEETING

The Department of Electronics and Communication Engineering at Sri Manakula Vinayagar Engineering College held the sixth Board of Studies meeting for B.Tech. in Electronics and Communication Engineering on July 21, 2023 at 10:00 AM in the Seminar Hall.

Members were present on the online platform

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

	University, Regional Campus, Coimbatore	Nominee)
5	Mr. C. Gnanavel General Manager, Production and Technology, Lenovo India Ltd., Puducherry	Industry Member

Members were present for the BoS Meeting

Sl. No	Name of the Member	Designation
1	Dr.R.Ramya , Professor/ ECE Specialization: ECE	Member
2	Dr. R.Kurinjimalar , Professor / ECE Specialization: Mobile Satellite Communication	Member
3	Dr. J.Pradeep , Associate Professor / ECE Specialization: Image Processing	Member
4	Prof. R. Ilaiyaraja , Assistant Professor / ECE Specialization: VLSI Design	Member
5	Dr.T.Gayathri , Professor Specialization: Mathematics	Member
6	Prof. K. Oudayakumar , Associate Professor Specialization: Physics	Member
7	Dr. S.Savithri , Professor Specialization: Chemistry	Member
8	Dr.D.Jaichithra , Associate Professor Specialization: English	Member
9	Mr. G. Dharanidharan Birlasoft Limited, Old Mahabalipuram Road, Chennai – 600096	Alumni Member

AGENDA OF THE MEETING

Item No. : BoS /2023 /UG/ECE 6.1

To review and confirm the minutes of the fifth BoS meeting held on 17th September 2022

Item No. : BoS /2023 /UG/ECE 6.2

To discuss and approve Regulations 2023 (R-2023) for the B.Tech Programme for the students admitted from the academic year 2023-24

Item No. : BoS /2023 /UG/ECE 6.3

To discuss and approve curriculum structure and Syllabus for Semester I and II for B.Tech Electronics and Communication Engineering Programme under the Regulations R-2023

Item No. : BoS /2023 /UG/ECE 6.4

To appraise and approve the professional and open electives chosen by the students in semesters - IV and VI under Regulations 2020

Item No. : BoS /2023 /UG/ECE 6.5

To appraise and approve the Employ-ability Enhancement Courses and Skill Development Courses chosen by the students in semesters II, IV and VI under

Item No. : BoS /2023 /UG/ECE 6.6

Any other items with the permission of chair

MINUTES OF THE MEETING

The 6th meeting of the Board of Studies (BoS) was opened by Dr. P. Raja, the Chairman, who extended a warm welcome to all members. He expressed his gratitude for their acceptance of the invitation to participate in the B.Tech. in Electronics and Communication Engineering program BoS. The Chairman then proceeded to discuss the agenda items in detail.

BoS /2023 /UG/ECE 6.1	To review and confirm the minutes of the fifth BoS meeting held on September 17, 2022
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The Chairman presented the action taken report based on the suggestions given by the members during the fifth Board of Studies meeting for B.Tech. in Electronics and Communication Engineering program under the 2020 regulations, which was held on September 17, 2022.

Suggestions	Action Taken
Members recommended changing the title of the course Cyber Physical System(U20ECT818) to Cyber Physical System and Security. Network security concept to be added to the syllabus.	The title modified and the Network security concept is included in the syllabus.
Members suggested doing slight modifications to the syllabus of High-Speed Electronics (U20ECE821) since the contents are fully based on semiconductors and informed to provide practical applications related to the courses	Updated the syllabus
Members discussed the inclusion of machine learning algorithms in Machine Learning for Wireless Communication (U20ECE822) are more appropriate to this course	Machine learning algorithms are included
Members recommend including Augmentation related content in the syllabus in Virtual and Augmented Reality(U20ECE823)	Included Augmentation in the syllabus
Members approved the syllabus provided in VLSI for Wireless Communication(U20ECE826) in Unit- IV, and the subtopics need to be included to get more details about the course	Subtopics are included
Members Propounded to include the channel model in Unit-II of 5G Wireless Communication Systems (U20ECE827)	Channel modes are included in Unit-II

Suggestions	Action Taken
Members proposed to include Unit III as Calibration of Medical Equipment with Biomedical Electronics (U20ECE828)	Title of the Unit III is modified as Calibration of Medical Equipment
Members suggested replacing Unit –IV of Advanced Digital Image Processing (U20ECE829) with Video Analytics	Unit –IV of Advanced Digital Image Processing (U20ECE829) is modified as Video Analytic components

Minutes are Reviewed and Confirmed

BoS /2023 /UG/ECE 6.2	To discuss and approve Regulations 2023 (R-2023) for the B.Tech Programme for the students admitted from the academic year 2023-24
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During the meeting, members discussed the regulations for the B.Tech. in Electronics and Communication Engineering program for students admitted from the academic year 2023-24, referred to as R2023.

- Members appreciated the introduction of B.Tech with Honors degree in the revised regulation which is going to increase the reputation of advanced learners. Also recommended introducing the advanced level of courses.
- The members also appreciated the introduction of Theory cum Practical courses will enhance more practical knowledge intern increase the core placement soon.

Approved and Recommended to the Academic Council

BoS /2023 /UG/ECE 6.3	To discuss and approve curriculum structure and Syllabi for Semester I and II for B.Tech Electronics and Communication Engineering Programme under the Regulations R-2023
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Board Chairman presented the curriculum based on the Regulations 2023

- Members suggested exchanging the Circuits and Networks course with the Electron Devices course, such that Circuits and Networks would be offered in Semester I and Electron Devices would be offered in Semester II. This is because basic knowledge of Circuits and Networks is essential for all the courses.
- Members suggested including the basic concepts of NMOS and PMOS transistors in Unit 3 of the "Electron Devices" course.
- Members also suggested including EDA tools in the Electron Devices Laboratory to gain more insights into the device characteristics.
- Members approved the syllabus of semester-I and Semester – II with this minor correction.

Approved with minor corrections and Recommended to the Academic Council

Department of ECE – Sixth BoS Meeting

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

BoS /2023 /UG/ECE 6.4 To appraise and approve the professional and open electives chosen by the students in semesters - IV and VI under Regulations 2020

- The Board Chairman submitted the details of the students who are opted for Professional and Open electives for the students from Semesters IV and VI under Regulations 2020

Semester – IV

Category	Course Code	Name of the Course	No. of Students
Professional Elective - III	U20ECE612	Aircraft communication and Navigation Systems	121
	U20ECE613	Nano - Electronics and Devices	52
	U20ECE614	Speech and Audio Signal Processing	44
Open Elective - III	U20CSO604	Graphics Designing	53
	U20ITO604	Mobile App Development	51
	U20ADO603	Principle of Artificial Intelligence and Machine Learning	113

Semester –VI

Category	Course Code	Name of the Course	No. of Students
Professional Elective - III	U20ECE401	Computer Networks	60
	U20ECE402	Sensors for Industrial Applications	59
	U20ECE403	Computer Architecture	56
	U20ECE404	PLC and SCADA Systems and its Applications	52
Open Elective - III	U20CSO401	Web Development	60
	U20CCO401	Basic DBMS	60
	U20ITO402	R programming	107

Approved and Recommended to the Academic Council

BoS /2023 /UG/ECE 6.5 To appraise and approve the Employability Enhancement Courses and Skill Development Courses chosen by the students in semesters II, IV and VI under Regulations 2020

- Members Appreciated the Employability Enhancement Courses and Skill Development Courses opted by the student from semester II, IV and VI under Regulations 2020

Department of ECE – Sixth BoS Meeting

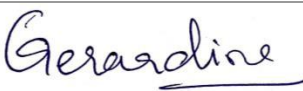
Year / Sem	Course Code	Course Title	No. of students
I / II	U20ECC226	CCNA (Routing & Switching)	237
II / IV	U20ECC427	CCNA (Wireless)	42
II / IV	U20ECC428	Cloud Computing	79
II / IV	U20ECC432	Cyber Security	106
III / VI	U20ECC645	Embedded System with IoT	69
III / VI	U20ECC659	IoT using Python	76
III / VI	U20ECC691	Web Programming -II	72

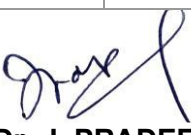
Approved and Recommended to Academic Council

BoS /2023 /UG/ECE 6.6 Any other item with the permission of the chair

- Members suggested organizing Hackathon and Marathon can be organized in
- Provide any certificates for the activities carried out for Mandatory courses which may create more interest among the students
- Syllabus formation is highly suitable and meets the industry requirements.
- Very well-defined syllabus and more topics are based on advanced future technology.

Dr. P. Raja, Chairman – BoS concluded the meeting at 11.30 am with a 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. EGALITE FRANCIS Assistant Professor / Mathematics (Member)	 Dr. S. DEEPA Professor / Chemistry (Member)
 Prof. K. OUDAYAKUMAR Associate Professor / Physics (Member)	 Dr. D. JAICHITHRA Professor / English (Member)