

JERUSALEM COLLEGE OF ENGINEERING
(An Autonomous Institution, Affiliated to Anna University, Chennai)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
MINUTES OF BOS MEETING HELD ON 02/06/2023

02.06.2023

Minutes of the 5th meeting of Board of Studies for the Department of Electronics and Communication Engineering held on 02-06-2023 at 10.30 a.m in the Board Room is furnished below.

Members present:

- Dr. Sheeja.V. Francis, Professor and Head, Dept. of ECE, Jerusalem College of Engineering, Chairman.
- Dr. M. Tamilarasi, Professor, Department of ECE, Pondicherry Engineering College, Pondicherry, Anna University Nominee - Member
- Dr. C. Tharini, Professor & Dean School of Electronics & Communication Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai.
- Mr. Ganesh Balasubramanian, Senior Deputy Director of Engineering, Amphenol Omnicore India Pvt Ltd, Industry Expert.
- Dr. K. Thayalan, Principal, Radiation Physics Department, Dr. Kamatchi Institute of Medical Sciences and Research, Chennai, Subject Expert
- Mr. M. Sarathy Krishnan, Asst. Engineer, KMC, Chennai, Member-Alumni.
- Dr. P. Gnanasivam, Professor and Dean IR & TBI Dept. of ECE, Jerusalem College of Engineering.
- Dr. S. Arun, Professor and Dean R & D, Dept. of ECE, Jerusalem College of Engineering.
- Dr. G. Merlin Sheeba, Professor, Dept. of ECE, Jerusalem College of Engineering.
- Dept. of ECE, Jerusalem College of Engineering.
- Ms. S. Bhavanisankari, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. G. T. Bharathy, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. T. Tamilselvi, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. S. Lavanya Devi, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. K. Rajasranya, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Mr. N. Kanniyappan, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. R. Malathy, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member.
- Ms. S. A. Saranya, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member.

The Chairman welcomed the members for attending the 5th meeting of the Board of Studies. The agenda points were discussed in detail for UG and PG separately as mentioned below:

UG R2021/Curriculum 2019

1. Ratification and Approval of List of Professional Electives in the form of verticals & Syllabi (For the students admitted from 2021 and 2022, under Regulation 2021 and Curriculum 2019 – B.E. ECE)

The Chairperson listed the professional electives in the form of verticals for B.E. – Electronics and Communication Engineering program designed for R2021 (CBCS) and presented the syllabus of 30 professional electives which have to be ratified.

The professional elective list in the form of verticals is attached as annexure. The following suggestions were given by the BOS members:

- All subjects in the verticals may not be offered through NPTEL, few may be offered in physical mode.
- Some of the subjects can be made as integrated courses to give hands on exposure if possible.
- Higher order Bloom's taxonomy level may be added in the course outcomes of few subjects wherever possible.
- Prerequisites like basic mechanics and basic mathematics, may be included in the syllabus of subjects in verticals where ever necessary.
- The Space and Underwater Technologies vertical may be renamed/ reoriented to include Defence Technology and Space Communication.
- IRNS topic to be included in the Positioning and Navigational Systems subject,

The above mentioned suggestions have been incorporated in the respective subjects.

2. Ratification and Approval of PEOs & PSOs for B.E. ECE program under R2023

The Chairperson presented the following revised PEOs & PSOs to the members, which was approved.

Program Educational Objectives (PEOs)

1. Ability to pursue further studies, research and product development in the fields of Electronics and Communication Engineering with the strong fundamentals acquired.
2. Exhibit professional skills to build systems of varying complexity and provide innovative solutions to real life challenges through the use of modern tools and techniques in the field.
3. Develop effective leadership, team spirit and ethics to act as good human beings and responsible citizens.
4. Demonstrate the ability to sustain and excel in the evolving field of Electronics & Communication Engineering with life-long learning skills.

Program Specific Outcomes (PSOs)

1. To design, simulate and analyze electronic and communication systems with the knowledge of fundamental and latest engineering concepts in the domain.
2. To apply design principles and best practices for developing quality products for scientific and business applications in the fields of Electronics and Communication.
3. To adapt to emerging Information and Communication Technologies (ICT) in order to innovate ideas and provide solutions to existing/novel problems in the field of Electronics and Communication Engineering.

3. Ratification and Approval of Curriculum 2023 – Sem 1 to Sem 8, for B.E. ECE program under R2023

The chairperson presented the curriculum 2023 Sem 1 to Sem 8 for B.E. ECE program under R2023.

The curriculum is attached as the annexure.

The following suggestion was given by the BOS members

- In Semester 6 VLSI and Embedded System Design Laboratory must be given importance as separate courses instead of integration.
- In semester 6 the mini project can be removed/merged with Product Development Laboratory.

As per the above suggestion changes have been incorporated in the curriculum.

4. Syllabi -Theory & Lab courses to be offered in Sem 2 under Curriculum 2023 for B.E. ECE & B.E. BME Programs

The chairperson presented the syllabus of Electronic Devices & Electric Circuits and Electronic Devices & Electric Circuits Laboratory which was approved by the members.

The syllabus is attached as annexure.

The following suggestions were given by the BOS members

- Electronic Principles by Malvino can be included in the references of Electronic Devices & Electric Circuits subject.
- The study experiments in Electronic Devices & Electric Circuits Laboratory must be reframed.

As per the above suggestion changes have been incorporated in the respective syllabus.

PG R2023 Curriculum and Syllabi

5. Curriculum & syllabi of R2023 for M.E. AE program

The chairman proposed that the R2023 for M.E AE program shall be the same as R2021, which was approved by the members.

6. Ratification and Approval of revised panel of Internal and External examiners to be forwarded to the Academic Council

The Chairperson presented the list of internal and external examiners to the members. The members recommended the list be forwarded to the Academic Council for approval. The lists are enclosed in Annexure.

7. Methodologies for innovative teaching and evaluation techniques.

The Chairperson suggested different innovative methods for teaching and evaluation. The members also gave suggestions and ideas that could be implemented for better teaching - learning environment.

Additional Remarks:

The meeting ended with the Chairperson thanking all the members for their presence and overall suggestions which she ensured would be incorporated and forwarded to the Academic Council.



CHAIRPERSON

(Dr. SHEEJA V FRANCIS)



SUBJECT EXPERT 1

(DR.C.THARINI)



SUBJECT EXPERT 2

(Dr. K. THAYALAN)



ALUMNI

(Mr. K. SARATHY)



INDUSTRY EXPERT

(Mr. GANESH BALASUBRAMANIAN)



ANNA UNIVERSITY MEMBER

(Dr. M. TAMILARASI)

DEPARTMENT OF BME & ECE
(Accredited by NBA)

5TH BOARD OF STUDIES MEETING

ATTENDANCE SHEET

Date: 02 June, 2023 (Friday)
Venue: Conference Room, First Floor, Main Block,
Jerusalem College of Engineering
Pallikaranai, Chennai – 600100.

S.no	Name of the member	Designation	Signature
1	Dr. M. Tamilarasi	PROFESSOR	<i>[Signature]</i>
2	Dr. K. Thayalan	Professor	<i>[Signature]</i>
3	Dr. C. Tharini	Professor ECE / Dean BSACIST	<i>[Signature]</i>
4	Mr. Ganesh Balasubramanian	Director of Engineering-APAC	<i>[Signature]</i>
5	Mr. K. Sarathy	Alumnus - JCE	<i>[Signature]</i> 12/6/23
6	Dr. Ramesh .S	Principal, JCE	<i>[Signature]</i>
7	Dr. P. Anusudha.	Dean Academic, JCE	<i>[Signature]</i> 26/6/23
8	Dr. P. Gnanasivam	Prof & ECE, Dean - DE	<i>[Signature]</i>
9	ILAYAPERUMAL. K	HEAD - TRAINING & PLACEMENT	<i>[Signature]</i>
10	Dr. R. Anitha	PROF - BME	<i>[Signature]</i>
11	Dr. Sheela Vramani	Professor & Head / ECE	<i>[Signature]</i>
12	T. JAMILSELVI	ASSO. Prof / ECE	<i>[Signature]</i>
13	G. T. BHARATHY	ASSOC - PROF / ECE	<i>[Signature]</i>
14	Dr. J. Sofia Bobby	Head - BME	<i>[Signature]</i> 2/6/23
15	E.L. Chinnappurani	Assistant professor	<i>[Signature]</i>
16	G. Bhavani Sankran	Associate professor	<i>[Signature]</i> 2/6/23
17	B. Nivetha	Assistant Professor	<i>[Signature]</i>
18	S. Lavanya	Assistant Professor	<i>[Signature]</i>
19	S. PURNIMA	Assistant professor	<i>[Signature]</i> 2/6/23
20	N. KANNIYAPPAN	Assistant professor	<i>[Signature]</i> 2/6/23