

DEPARTMENT OF BIOMEDICAL ENGINEERING
(Accredited by NBA)

6TH BOARD OF STUDIES MEETING

MINUTES OF THE MEETING

Date: 14 May, 2024 (Tuesday)

Venue: Conference Room, First Floor, Main Block,
Jerusalem College of Engineering,
Pallikaranai, Chennai - 600100.

Board: Biomedical Engineering

Agenda:

1. To approve the Syllabi of II year courses (3rd and 4th semesters) under R2023 for B.E Biomedical Engineering programme.
2. To approve the list of PEs in the form of verticals along with syllabi under R2023.
3. To approve the list of OEs with syllabi under R2023.
4. To approve the revised list of Internal and External Examiners.
5. Pedagogical Initiatives

6th Board of Studies meeting for the Department of Biomedical Engineering was held on 14 May, 2024 (Tuesday) by 10.00 a.m at the campus. The members of boards of BME and ECE are mentioned below.

S.no	Name of the Member	Role Description	
1	Dr. J. Sofia Bobby <i>Professor & Head</i>	Department of Biomedical Engineering, Jerusalem College of Engineering.	Chairperson - BME
2	Dr. M. Tamilarasi <i>Professor</i>	Department of Electronics and Communication Engineering, Puduchery Technological Univeristy (PEC), Pondicherry.	Anna University Nominee
3	Dr. K. Thayalan <i>Honorary Professor</i>	Department of Medical Physics, Anna University Campus, Guindy, Chennai - 600025.	Subject Expert 1
4	Dr. C. Tharini <i>Professor & Dean</i>	School of Electrical & Communication, Crescent Institute of Science and Technology, Vandalur, Chennai.	Subject Expert 2
5	Mr. Ganesh Balasubramanian <i>Senior Deputy Director</i>	Amphenol Antenna Solutions Inc., Chennai.	Industry Expert

6	Mr. K. Sarathy	Sr. Assistant Engineer	Alumnus/2005-09
7	Dr. Sheeja V Francis <i>Head of the Department</i>	Department of ECE, Jerusalem College of Engineering	Chairperson - ECE
8	Dr. Ramesh S	Jerusalem College of Engineering	Principal
9	Dr. P. Anuradha	Jerusalem College of Engineering	Dean Academics
10	Dr.P.Gnanasivam	Jerusalem College of Engineering	Professor and Dean IR
11	Dr.R.Anitha	Jerusalem College of Engineering	Professor
12	Ms.C.L.Annapoorani	Jerusalem College of Engineering	BOS Coordinator/ Assistant Professor
13	Ms.S.Purnima	Jerusalem College of Engineering	Assistant Professor
14	Ms.S.Lavanya	Jerusalem College of Engineering	Assistant Professor
15	Ms.V.Mythily	Jerusalem College of Engineering	Assistant Professor
16	Ms.B.Nivetha	Jerusalem College of Engineering	Assistant Professor

The Chairman - BME welcomed the Distinguished Board Members, Principal, Deans and Heads, Faculty members for the 6th Board of Studies meeting.

1. Consideration and Approval of Syllabus offered in 3rd & 4th Semester, under R-2023

The Chairman listed the courses to be offered in the 3rd and 4th semester under R-2023 for B.E. Biomedical Engineering, and presented the syllabi.

The following points were suggested by the board members:

Biosensors and Measurements - Semester 3

- Dr.M.Tamilarasi suggested that the classification and characterisation of transducers shall be included in Unit 2.
- Dr.C.Tharani suggested that Biosignals generation shall be specified in the outcome.

Integrated Circuits - Semester 4

- Dr.M.Tamilarasi suggested that Sequential Circuits topic shall be included in the syllabus.
- It was also suggested that a basic usage of Multiplexer/Demultiplexer ICs experiments shall be included.

The suggestions listed by the board members were incorporated in the respective subjects.

Annexure 1: Syllabus of 3rd & 4th Semester offered under R-2023

2. Consideration and Approval of Syllabus of the Professional Electives offered under R-2023

The Chairman listed the courses and their syllabus to be offered as Professional Electives under R-2023 for B.E. Biomedical Engineering.

The following points were suggested by the board members:

Speech and Audio Signal Processing

- Dr.M.Tamilarasi suggested that some basic open source software data shall be included in the last unit.

Computer vision in healthcare

- Dr.C.Tharani advised that the unit 3 and 4 shall be swapped, since unit 4 is basic than the other. It was also suggested that title of Unit 2 shall be changed.

Dr.M.Tamilarasi also suggested that IoT topics shall be included for Biomedical Engineering students.

Annexure 2: Syllabus of Professional Electives offered under R-2023

3. Consideration and Approval of Open Electives Syllabus offered under R-2023

The Chairman listed the courses and their syllabus to be offered as Open Electives under R-2023 for B.E. Biomedical Engineering.

The following points were suggested by the board members:

Introduction to Biometric systems

- Dr.C.Tharani suggested that all the topics shall be reduced, since it is vast.

Basics of Neural Networks

- The board members suggested that the title shall be changed

Mr.Ganesh Balasubramanian suggested that certain new topics such as Micromechanics, Basic mechanics, bio artificial materials shall be incorporated in the syllabus.

Dr.C.Tharani suggested that the Waste Management paper shall be included for all the departments and an electrochemical work station shall be installed at the premises, to enable students and research scholars who work on nanofabrication and micromechanics.

Dr.C.Tharani suggested some project based learning courses shall be included in every semester, to enable purposeful project expo.

Annexure 3: Syllabus of open elective offered under R-2023

4. 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.

Annexure 5: List of Internal and External Examiners

5. Best Practices followed in the Department

The Chairperson listed out different pedagogical initiatives and innovative methods for teaching and evaluation. The members also gave suggestions and ideas that could be implemented for better teaching – learning environment.

Additional Remarks:

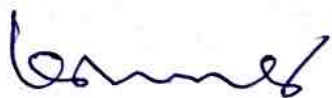
The meeting ended with the Chairperson thanking all the members for their presence and overall suggestions which she ensured would be incorporated and forwarded to the Academic Council.


CHAIRPERSON

(Dr. J. SOFIA BOBBY)


SUBJECT EXPERT 1

(DR.C.THARINI)


SUBJECT EXPERT 2

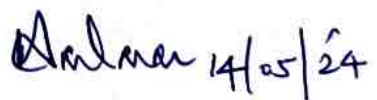
(Dr. K. THAYALAN)


ALUMNI

(Mr. K. SARATHY)


INDUSTRY EXPERT

(Mr. GANESH B)


ANNA UNIVERSITY
NOMINEE

(Dr. M. TAMILARASI)