



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)



PERUNDURAI, ERODE - 638 057



Department of Biomedical Engineering

8th BOARD OF STUDIES MEETING

18th October 2024 @ 11.30 a.m.

ZOOM MEET

Link:

<https://us06web.zoom.us/j/89228470729?pwd=TSX59bksUbKKaWn9qaQjtNopA9Ig1W.1>



ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI - 638057

(An Autonomous Institution - Affiliated to Anna University, Chennai)



DEPARTMENT OF BIOMEDICAL ENGINEERING

08th Board of Studies Meeting

Mode: Through Online (Zoom Meet Link:

<https://us06web.zoom.us/j/89228470729?pwd=TSX59bksUbKKaWn9qaQjtNopA9lg1W.1>

Date & Time: 18.10.2024 – 11.30 AM

AGENDA

The 08th Board of Studies Meeting is convened to get the approval for the Curriculum for all the Semesters Syllabus of V & VI semesters and Syllabus of Professional Elective I – IV under the Regulations 2023.

BoS / BME 8.1	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Biomedical Engineering
BoS / BME 8.2	Confirmation of the 7 th Board of Studies Meeting Minutes of the Department of Biomedical Engineering and Action taken report of 7 th Board of Studies meeting.
BoS / BME 8.3	To consider and approve the Curriculum: I to VIII Semester and Professional Elective I – IV for B.E. BME Programme offered under Regulation 2023.
BoS / BME 8.4	To consider and approve the Syllabi: V to VI Semester and Professional Elective I – IV for B.E. BME Programme offered under Regulation 2023.
BoS / BME 8.6	Any other Matter
BoS / BME 8.7	Vote of Thanks

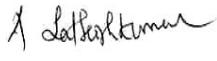
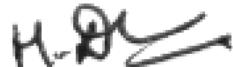
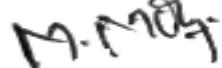
DEPARTMENT OF BIOMEDICAL ENGINEERING

MINUTES OF THE MEETING

The 07^h Board of Studies meeting of Department of Biomedical Engineering was held on 18th October 2024 at 11.30 a.m. through online.

1. The following members were present:

1	Dr. B. Saritha, Associate Professor & Head Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman
2	Dr.G.Thirugnanam, Professor, Department of Electronics and Communication Engineering, Government College of Technology, Thadagam Main Rd, Coimbatore – 641 013.	University Nominee
3	Dr. N. Sivakumaran, Professor, Dept. of Instrumentation and Control Engineering National Institute of Technology Trichy – 620015	Academic Experts
4	Dr. D. K. Ravish, Associate Professor, Department of Medical Electronics, Dr. Ambedkar Institute of Technology, Malathahalli, Bangalore – 560 056	
5	Mr. A. Shankar, Manager, Medical and Health Service – Auditor, TÜV SÜD South Asia, 1st & 4th Floor, No: 11 & 13, Origin Towers- Type 2, Dr. Vikram Sarabhai Instronic Estate (VSI Estate), Thiruvanmiyur, Chennai – 600041	Representative from Industry / Corporate Sector
6	Mr.K. Prathap, Service Engineer, Ababil Healthcare Pvt, Ltd, Plot no.20, KVT Garden phase - III, V S Mani Nagar, Madhavaram, Chennai – 600 060	Meritorious Alumnus nominated by the Principal

7	Dr. A. Sathish Kumar, Associate Professor / BME Erode Sengunthar Engineering College, Perundurai.	
8	Dr. G. S. Sathesh Kumar, Associate Professor / BME Erode Sengunthar Engineering College, Perundurai.	
9	Dr. P. Brindha, Associate Professor / BME Erode Sengunthar Engineering College, Perundurai.	
10	Mr. K. Balasubramanian, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
11	Mrs. M. Divya, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
12	Ms. M. Mohanavalli, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
13	Mrs. K. K. Leka, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
14	Ms. N. Ageela, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	

Minutes of the Meeting

BoS / BME 8.1	: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF BIOMEDICAL ENGINEERING.
	The Chairman, BOS of the Biomedical Engineering welcomed the members of Board of Studies and thanked each of them for spending their valuable time to attend the meeting.
BoS / BME 8.2	: CONFIRMATION OF THE 07th BOARD OF STUDIES MEETING MINUTES OF THE DEPARTMENT OF BIOMEDICAL ENGINEERING AND ACTION TAKEN REPORT OF 07th BOARD OF STUDIES MEETING.
	The Chairman, BOS of the Biomedical Engineering brief about the changes made in the Regulation 2023 Semester I to VIII curriculum and syllabus through Minutes of Meeting and Action taken report of the 07 th Board of Studies Meeting.
BoS / BME 8.3	: TO CONSIDER AND APPROVE THE CURRICULUM V TO VI SEMESTER FOR THE B.E. BIOMEDICAL ENGINEERING PROGRAMME OFFERED UNDER REGULATIONS 2023.
	The Chairman, BOS of the Biomedical Engineering presented the R2023 Curriculum of all semesters B.E. Biomedical Engineering to the Board of Studies members. BOS members reviewed and approved the same.
BoS / BME 8.4	: TO CONSIDER AND APPROVE THE SYLLABI OF V AND VI SEMESTER COURSES FOR B.E. BME PROGRAMME OFFERED UNDER REGULATION 2023.
BoS / BME 8.5	The Chairman, BOS of the Biomedical Engineering presented the R2023 Syllabi of V and VI semesters B.E. Biomedical Engineering to the Board of Studies members. The BoS members suggested the following: <ul style="list-style-type: none">• Dr.D.K.Ravish, Associate Professor / ME / DrAIT / Bangalore, suggested to include the standards of Automotive Research Association of India (ARAI) for functionality of Ambulatory vehicles in the subject of “23BM601 – Medical Standards and Regulation”.

		<ul style="list-style-type: none"> • Dr.D.K.Ravish, Associate Professor / ME / DrAIT / Bangalore, suggested to include the reference book with titled Reliable Design of Medical Devices author of Richard Fries in the subject of “23BMX31 – Quality Control in Medical Equipment”. • Dr.G.Thirugnanam, Associate Professor / ECE / GCT / Coimbatore, recommended to merge Unit III & Unit IV as a same unit in the course of “23BM603 – Medical Image Processing”. • Dr.G.Thirugnanam, Associate Professor / ECE / GCT / Coimbatore, suggested to replace the V Unit based on the Medical videos in the subject of “23BM603 – Medical Image Processing”. <p>For the remaining subjects BOS members reviewed and approved the same.</p>
BoS / BME 8.6	:	ANY OTHER MATTER
BoS / BME 8.7	:	<p>VOTE OF THANKS</p> <p>❖ Mr.K.Balasubramanian, Assistant Professor / BME, proposed the vote of thanks for the 8th BoS meeting conducted on 18.10.2024. He thanked everyone for their valuable presence over online mode and for their valuable suggestions to improve the curriculum and syllabi of B.E. Biomedical Engineering.</p>



CHAIRMAN
BOARD OF STUDIES

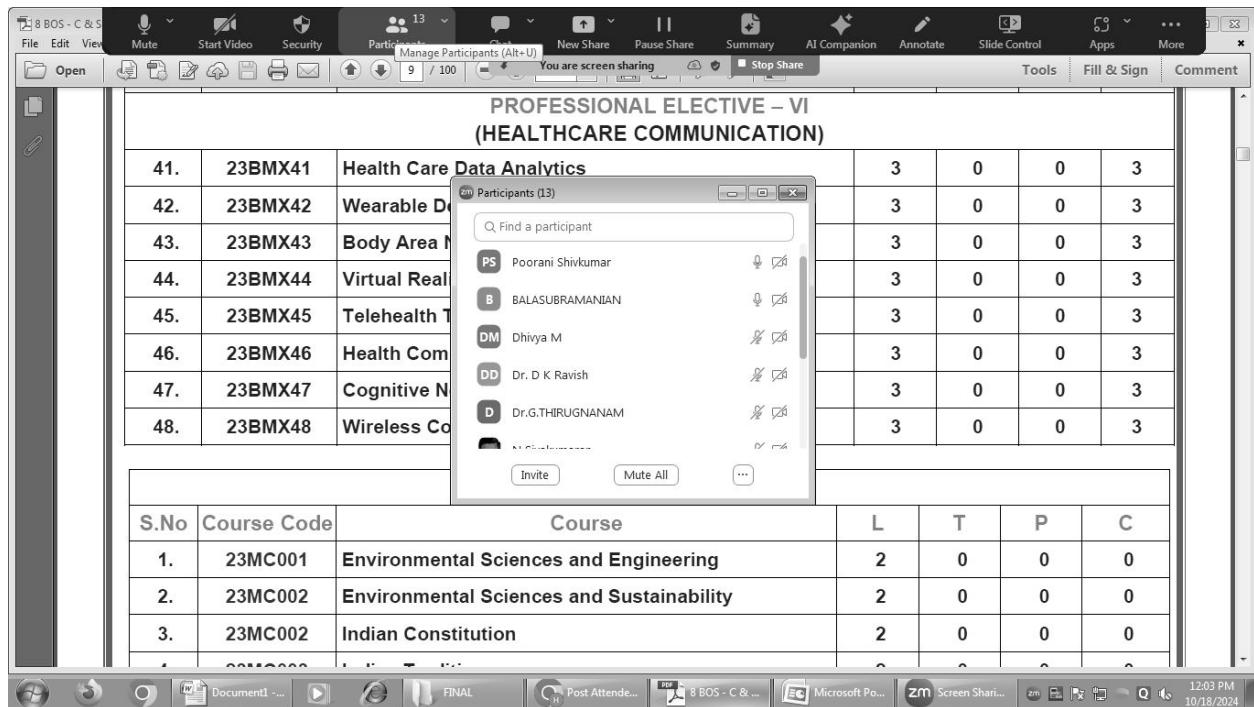
Department of Biomedical Engineering

The 08th Board of studies meeting held on 18.10.2024 through the following link:

Zoom Meet online link:

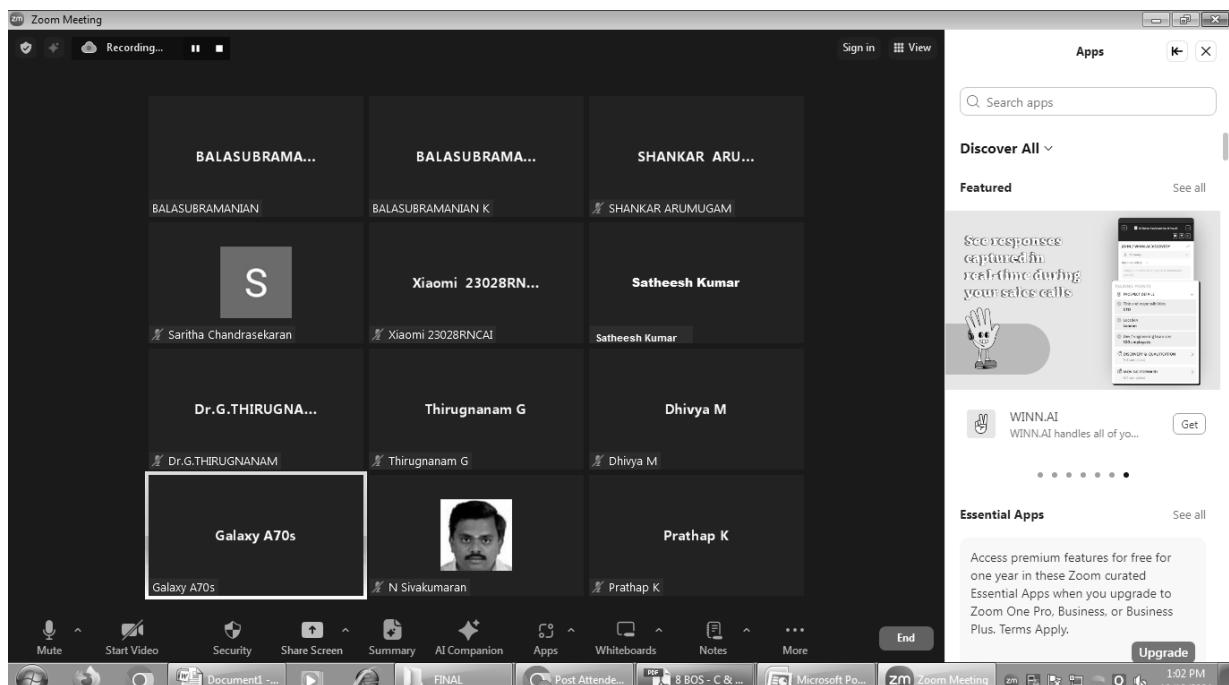
<https://us06web.zoom.us/j/89228470729?pwd=TSX59bksUbKKaWn9qaQjtNopA9Ig1W.1>

Snapshots of Meeting



The screenshot shows a Zoom meeting interface. At the top, there is a toolbar with various icons for file operations, video, security, participants (13), and other meeting controls. A participant list box is open, showing 13 participants with their names and profile icons. Below this, there are two tables of data. The first table is titled 'PROFESSIONAL ELECTIVE – VI (HEALTHCARE COMMUNICATION)' and lists 48 entries, each with a number (41 to 48), course code, course name, and numerical values (3, 0, 0, 3). The second table lists courses with their codes, names, and credit values (L, T, P, C). The bottom of the screen shows the Zoom control bar with icons for microphone, video, share screen, and end meeting, along with a timestamp of 12:03 PM on 10/18/2024.

S.No	Course Code	Course	L	T	P	C
1.	23MC001	Environmental Sciences and Engineering	2	0	0	0
2.	23MC002	Environmental Sciences and Sustainability	2	0	0	0
3.	23MC002	Indian Constitution	2	0	0	0



The screenshot shows a Zoom meeting interface with a dark theme. On the left, there is a grid of participant video feeds. The participants are identified by their names and profile icons. The names visible are BALASUBRAMANIAN, Saritha Chandrasekaran, Dr.G.THIRUGNAM, Thirugnanam G, Galaxy A70s, and others. On the right, there is a sidebar titled 'Apps' which includes a search bar, a 'Discover All' section with a 'Featured' subsection showing a 'Screen responses' app, and an 'Essential Apps' section with a message about upgrading for premium features. The bottom of the screen shows the Zoom control bar with icons for microphone, video, share screen, and end meeting, along with a timestamp of 1:02 PM on 10/18/2024.

8 BOS - C & S - PRESENTATION - R2013 - 18.10.24.pdf - Adobe Reader

You are screen sharing Stop Share

File Edit View Window Help

Open Tools Fill & Sign Comment

Unit IV COMPARTMENTAL PHYSIOLOGICAL MODEL 9

Modeling the body as compartments, behaviour in simple compartmental system, pharmacokinetic model, and multi compartmental system. Physiological modelling: Electrical analogy of blood vessels, model of systematic blood flow and model of coronary circulation. Mathematical modelling of the system: Thermo regulation, Thermoregulation of cold bloodedness & warm bloodedness, the anatomy of thermo regulation, lumping and partial differential equations, heat transfer examples, mathematical model of the controlled process of the body.

Unit V SIMULATION OF PHYSIOLOGICAL SYSTEMS 9

Simulation of physiological systems using Open CV / MATLAB software. Biological receptors: - Introduction, receptor characteristics, transfer function models of receptors, receptor and perceived intensity. Neuromuscular model, Renal System, Drug Delivery Model.

L : Lecture T: Tutorial P: Practical C : Credits Total: 45 Periods

Approved in the 8th BOS Meeting of Biomedical Engineering conducted on 18.10.2024.

B.E. BME – CBCS – R2023

12:34 PM 10/18/2024

Participants (12)

Find a participant Minimize

BK BALASUBRAMANIAN K (Host, me)

B BALASUBRAMANIAN

DM Dhivya M

DD Dr. D K Ravish

D Dr.G.THIRUGNANAM

N N Sivakumaran

PK Prathap K

S Saritha Chandrasekaran

SA SHANKAR ARUMUGAM

TG Thirugnanam G

X2 Xiaomi 23028RNCAI

Invite Mute All

Document1 -... FINAL Post Attendee... 8 BOS - C & ... Microsoft Po... ZM Screen Shar... 10/18/2024