



# **ERODE SENGUNTHAR ENGINEERING COLLEGE**



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

**PERUNDURAI, ERODE - 638 057**



## **Department of Biomedical Engineering** **9<sup>th</sup> BOARD OF STUDIES MEETING**

**8<sup>th</sup> May 2025 @ 10.00 a.m.**

**ZOOM MEET**

**Link:**

<https://us06web.zoom.us/j/82535216067?pwd=Z3QunxrLtq0a2QLhZV7VFh4aISQrTw.1>



**ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI - 638057**

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



## **DEPARTMENT OF BIOMEDICAL ENGINEERING**

### **09<sup>th</sup> Board of Studies Meeting**

**Mode: Through Online (Zoom Meet Link:**

**<https://us06web.zoom.us/j/82535216067?pwd=Z3QunxrLtq0a2QLhZV7VFh4alSQRtw.1>**

Date & Time: 08.05.2025 – 10.00 AM

### **AGENDA**

The 09<sup>th</sup> Board of Studies Meeting is convened to get the approval for the Curriculum for all the Semesters Syllabus of VI & VIII semesters and Syllabus of Professional Elective & Open Elective under the Regulations 2023.

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|--------------|---|--|
| BoS /BME 9.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Biomedical Engineering  |
| BoS /BME 9.2 | : | Confirmation of the 8th Board of Studies Meeting Minutes of the Department of Biomedical Engineering and Action taken report of 8th Board of Studies meeting.  |
| BoS /BME 9.3 | : | To consider and approve the curriculum: I to VIII Semester for B.E. BME Programme offered under Regulation 2023.   |
| BoS /BME9.4  | : | To consider and approve the Syllabi: VII and VIII Semester courses for B.E. BME Programme offered under Regulation 2023.   |
| BoS /BME 9.5 | : | To consider and approve the Syllabi: Professional Elective Subjects &Open Electives courses for B.E. BME Programme offered under Regulation 2023.  |
| BoS /BME 9.6 | : | Replacing the course “Problem Solving and Python Programming” with “Python Programming & AI” for the students admitted in the year 2025-26 for the B.E. Biomedical Engineering offered under Regulations 2023. |
| BoS /BME 9.7 | : | Adding Video link of NPTEL course in reference of all the courses under regulations 2023   |
| BoS /BME9.8  | : | Inclusion of Industry oriented subject in 5th semester B.E. Biomedical Engineering Programme offered under Regulations 2023.   |

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| BoS BME 9.9  | : | Any other Matters   |
| BoS /BME9.10 | : | Approval of list of external examiners for the valuation. |
|              | : | Any other items   |

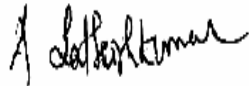

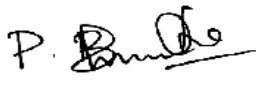


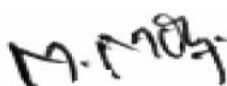


## DEPARTMENT OF BIOMEDICAL ENGINEERING

### MINUTES OF THE MEETING

The 09<sup>th</sup> Board of Studies meeting of Department of Biomedical Engineering was held on 08<sup>th</sup> May 2025 at 10.00 a.m. through online.

1. The following members were present:

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

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|----|---|---|
| 7  | <b>Dr.A.Sathish Kumar,</b><br>Professor / BME<br>Erode Sengunthar Engineering College, Perundurai               |     |
| 8  | <b>Dr.G.S.Satheesh Kumar,</b><br>Associate Professor / BME<br>Erode Sengunthar Engineering College, Perundurai  |    |
| 9  | <b>Dr.B.Brindha,</b><br>Associate Professor / BME<br>Erode Sengunthar Engineering College, Perundurai           |    |
| 10 | <b>Mr. K. Balasubramanian,</b><br>Assistant Professor / BME<br>Erode Sengunthar Engineering College, Perundurai |    |
| 11 | <b>Mrs. M. Dhivya,</b><br>Assistant Professor / BME<br>Erode Sengunthar Engineering College, Perundurai         |    |
| 12 | <b>Ms. M. Mohanavalli,</b><br>Assistant Professor / BME<br>Erode Sengunthar Engineering College, Perundurai     |    |
| 13 | <b>Mrs. K. K. Leka,</b><br>Assistant Professor / BME<br>Erode Sengunthar Engineering College, Perundurai        |    |
| 14 | <b>Ms. N.Ageela,</b><br>Assistant Professor / BME<br>Erode Sengunthar Engineering College, Perundurai           |  |

## Minutes of the Meeting

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|---------------|---|--|
| BoS / BME 9.1 | : | <b>WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF BIOMEDICAL ENGINEERING.</b>  |
|               |   | 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 9.2 | : | <b>CONFIRMATION OF THE 8TH BOARD OF STUDIES MEETING MINUTES OF THE DEPARTMENT OF BIOMEDICAL ENGINEERING AND ACTION TAKEN REPORT OF 8TH BOARD OF STUDIES MEETING.</b>   |
|               |   | The Chairman, BOS of the Biomedical Engineering briefed 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 08 <sup>th</sup> Board of Studies Meeting.  |
| BoS / BME 9.3 |   | <b>TO CONSIDER AND APPROVE THE CURRICULUM: I TO VIII SEMESTER FOR B.E. BME PROGRAMME OFFERED UNDER REGULATION 2023.</b>  |
|               | : | <p>The Chairman, BOS of the Biomedical Engineering presented the R2023 Curriculum of all semesters B.E. Biomedical Engineering to the Board of Studies members.</p> <p>BOS members reviewed and approved the same.</p>   |
| BoS / BME 9.4 | : | <b>TO CONSIDER AND APPROVE THE SYLLABI: VII AND VIII SEMESTER COURSES FOR B.E. BME PROGRAMME OFFERED UNDER REGULATION 2023.</b>  |
| BoS / BME 9.5 |   | <p>The Chairman, BOS of the Biomedical Engineering presented the R2023 Syllabi of <b>VII AND VIII</b> semesters B.E. Biomedical Engineering to the Board of Studies members.</p> <p>The BoS members suggested the following:</p> <ol style="list-style-type: none"> <li><b>Mr. A. Shankar</b>, Manager/Medical and Health Service – Auditor, Chennai suggested to include applications or implementation part as Unit V in “<b>23BM503- Artificial Intelligence and Machine Learning in Medicines</b>” and mainly to include CNN application.</li> </ol> |

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|---------------|---|---|
|               |   | <p>2. <b>Mr. A. Shankar</b>, Manager/Medical and Health Service – Auditor, Chennai suggested to include recent book publications in “<b>23BMX17-Rehabilitation Engineering</b>”.</p> <p>3. <b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, Suggested to map PO1 to PO5 as strong mapping with COPO justification in “<b>23BMX19-Physiological Modeling</b>”.</p> <p>4. <b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, suggested to include personal health information data analytics in healthcare and also to add US &amp; FDA accreditation information in “<b>23BMX07- Health Care Information Systems</b>”.</p> <p>5. <b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, suggested to add introduction to network layers&amp; network data in the first unit of “<b>23BMX42-Wearable Devices</b>”.</p> <p>6. <b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, suggested to organize the units in “<b>23BMX43-Body Area Networks</b>”.</p> <p>7. <b>Mr. A. Shankar</b>, Manager/Medical and Health Service – Auditor, Chennai suggested to slightly modify UNIT IV in AR &amp;VR in Healthcare and also <b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, suggested to include VR application in medicine in UNIT V of “<b>23BMX44- Virtual Reality and Augmented Reality in Healthcare</b>”.</p> <p>8. <b>Mr. A. Shankar</b>, Manager/Medical and Health Service – Auditor, Chennai Suggested to change wireless &amp; mobile telehealth in telehealth technology and also add more new technology related to telehealth in “<b>23BMX45- Telehealth Technology</b>”.</p> <p>For the remaining subjects BOS members reviewed and approved the same.</p> |
| BoS / BME 9.6 | : | <p>REPLACING THE COURSE “<b>PROBLEM SOLVING AND PYTHON PROGRAMMING</b>” WITH “<b>PYTHON PROGRAMMING WITH AI</b>” FOR THE STUDENTS ADMITTED IN THE YEAR 2025-26 FOR THE B.E. BIOMEDICAL ENGINEERING OFFERED UNDER REGULATIONS 2023.</p> <p><b>Dr.D.K.Ravish</b>, Associate Professor / ME / Dr.AIT / Bangaluru, suggested incorporating AI with Python and also suggest modifying Unit V syllabus.</p>   |

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| BoS / BME 9.7  |   | ADDING VIDEO LINK OF <b>NPTEL COURSE</b> IN REFERENCE OF ALL THE COURSES UNDER REGULATIONS 2023.  |
|                |   | NPTEL course references added in all the courses under regulations 2023.  |
| BoS / BME 9.8  |   | INCLUSION OF INDUSTRY ORIENTED SUBJECT IN 5TH SEMESTER B.E. BIOMEDICAL ENGINEERING PROGRAMME OFFERED UNDER REGULATIONS 2023.  |
|                |   | BOS members reviewed and approved the Industry Oriented Subject in 5 <sup>th</sup> Semester curriculum-“Industry 4.0 with Industrial IoT”.  |
| BoS / BME 9.9  |   | Any other Matters   |
| BoS / BME 9.10 | : | VOTE OF THANKS  |
|                |   | ❖ <b>DrB.Saitha, Associate Professor / BME</b> , proposed the vote of thanks for the 9 <sup>th</sup> BoS meeting conducted on 08.05.2025. 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. |

  
 CHAIRMAN  
 BOARD OF STUDIES



# Department of Biomedical Engineering

The 09<sup>th</sup> Board of studies meeting held on 08.05.2024 through the following link:

Zoom Meet online link:

<https://us06web.zoom.us/j/82535216067?pwd=Z3QunxrLtg0a2QLhZV7VFh4a1SQrTw.1>

## Snapshots of Meeting

