

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR
(An Autonomous Institution Affiliated to Anna University, Chennai)
DEPARTMENT OF BIOMEDICAL ENGINEERING

Board of Studies in Biomedical Engineering
Thirty three Meeting on 10.01.2026 at 11.00 AM

Minutes of Meeting

33rd Board of studies meeting in Biomedical Engineering was conducted on 10.01.2026 at 11.00 AM in HoD Chamber, BME Department, Main Block, Adhiyamaan College of Engineering (Autonomous), Hosur.

MEMBERS PRESENT

1. Dr.T.S.Udhaya Suriya, Chairperson, BoS / Biomedical Engineering
2. Dr. G. Kavithaa, University Nominee.
3. Dr. Sasikumar K, Subject expert.
4. Mr.S. Kumar, Industry Nominee.
5. Mr.S. Vimalraj,B.E., Alumni representative
6. Dr. N. Bagyalakshmi, Member, BoS / Biomedical Engineering
7. Dr. V. P. Krishnammal, Member, BoS / Biomedical Engineering
8. Mr. P. Ganesh Babu, Member, BoS / Biomedical Engineering
9. Mr. C. Sathish Kumar, Member, BoS / Biomedical Engineering
10. Mr. M. Kaviyarasu, Member, BoS / Biomedical Engineering
11. Mrs. S. Sivaranjani, Member, BoS / Biomedical Engineering
12. Mrs. L. Labincy, Member, BoS / Biomedical Engineering

33.1 Welcome and Opening Remarks

Dr. T. S. Udhaya Suriya, Chairperson – Board of Studies chaired the meeting and welcomed all the members to the 33rd Board of studies meeting in the Department of Biomedical Engineering. The chairperson of the board introduced the external members of the Board of Studies which includes a University Nominee, Expert members, Industrial Member and an alumnus of the college and thanked each of them for sparing their valuable time to attend the meeting. The internal members introduced themselves to the Board of studies.

33.2 To consider the minutes of the thirty second meeting of the Board of Studies in Biomedical Engineering held on 05.07.2025.

RESOLVED that the minutes of the thirty second meeting of the Board of Studies in Biomedical Engineering have been considered.

33.2.1 To consider the syllabi of 6th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2023-24.

RESOLVED that the syllabi of 6th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2023-24 be approved (**Annexure-I**).

33.2.2 To consider the syllabi of 4th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2024-25.

RESOLVED that the syllabi of 4th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2024-25 be approved (**Annexure-II**).

33.3 To consider Curriculum Outcome Framework

The committee verified that COs are clearly stated, measurable and attainable and are framed using appropriate Bloom's Taxonomy action verbs

The CO-PO and CO-PSO mapping matrices were presented and discussed. Consistency between CO statements and their mapped POs/PSOs was ensured.

The attainment calculation formulae and target levels were discussed and validated. The committee recommended periodic review of attainment levels for continuous improvement.

33.4.1 To consider the CO/PO Attainment Data

The CO/PO Attainment Data for the even semester of 2024-2025 academic year was presented by chairperson. The attainment levels were compared with the predefined benchmarks as 70%. Areas of achievement and underperformance were highlighted.

33.4.2 Gap Analysis & Corrective Measures

Gaps between the targeted and actual CO/PO attainment were identified. Possible reasons for gaps included:

- Limited practical exposure in certain courses

Corrective actions proposed:

- Conduct of remedial classes and workshops for difficult topics
- Industry interactions and expert lectures to bridge practical knowledge gaps

33.4.3 Faculty Development Plan

To address the gaps and improve teaching-learning quality, the following faculty development initiatives were proposed:

- Faculty QIP program to improve teaching learning quality.
- Training sessions on advanced teaching tools and assessment techniques.

- Encouragement for faculty to participate in NPTEL and certification programs.

33.5 IKS-based Elective Courses

Discussion was held on integrating Indian Knowledge System (IKS) in Mandatory courses for the R- 22 curriculum. History of Science and Technology in India is introduced in 6th Semester to ensure IKS contributions to Science, Mathematics, and Technology.

The BoS members appreciated that the projects done by the students were based on IKS domain such as Yoga, Ayurveda, Natya Shastra, Siddha and Traditional Indian Practices.

33.6 SWAYAM/NPTEL Course Mapping

33.6.1 To consider the list of students who have cleared the SWAYAM/NPTEL courses for credit allocation.

RESOLVED that the list of students who have cleared the SWAYAM/NPTEL courses for credit allocation be approved.

33.6.2 To consider the list of SWAYAM/NPTEL courses for the batch of students admitted in 2022-23, 2023-24 and 2024-25.

RESOLVED that the list of SWAYAM/NPTEL courses for the batch of students admitted in 2022-23, 2023-24 and 2024-25 be approved.

33.7.1 NSQF Level Mapping

The BoS ensure that the curriculum will align with **AICTE** guidelines.

The BoS committee reviewed the NSQF level mapping of the programme and confirmed that the curriculum outcomes, skill components, and competency levels are appropriately aligned with the prescribed NSQF descriptors.

33.7.2 Skill-based Add-on/Certificate Courses

To consider the value-added course under **Regulation 2022 (CBCS)**.

RESOLVED that the value-added course under **Regulation 2022 (CBCS)** be approved (**Annexure-III**).

33.7.3 Job Role Mapping (NSDC)

Department Advisory Board prepared detailed job role mapping documentation. Proposed mapping will be reviewed by the **Board of Studies (BoS)**. Industry expert's feedback on practical competencies required for the listed job roles. The incorporation of skill-based courses, practical training, internships, and hands-on laboratory components in line with NSDC guidelines was reviewed. The BoS members advised to add more certification courses to strengthen employability.

33.8.1 Internship Structure

The **Department Advisory Board** prepared a detailed handbook for internship including guidelines, templates and timelines. Faculty mentors will be assigned to each student for regular monitoring.

List of student's undergone internship in hospitals, biomedical companies and research organizations will be expanded and approved.

33.8.2 Stake holder feedback on Curriculum

The **Department Advisory Board** prepared summary of feedback from stake holders. The suggestions given by the DAB were analyzed in the BoS.

The BoS suggested for inclusion of new topics in the following subjects **Medical Device Design, Biostatistics and Robotics in Medicine** was recommended. Recommend to establish additional MoUs with industry partners.

33.8.3 Employability Skills Modules

The Board suggested initiating placement training to significantly improve the **Industry readiness and employability** of prefinal year Biomedical Engineering students.

33.9 Elective Course Expansion

33.9.1 To consider the Elective subject syllabi of 6th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2023-24.

RESOLVED that the Elective subject syllabi of 6th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2023-24 be approved (**Annexure-IV**).

33.9.2 To consider the Elective subject syllabi of 8th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2022-23.

RESOLVED that the Elective subject syllabi of 8th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2022-23 be approved (**Annexure-V**).

33.10 Stakeholder Feedback and Curriculum Benchmarking

The **Department Advisory Board** prepared summary of feedback from stack holders. The BoS suggested that the feedback given by the DAB were incorporated in the upcoming regulation 2025.

33.11 Curriculum Revision

33.11.1 To consider the curriculum and syllabi of 8th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2022-23.

RESOLVED that the curriculum and syllabi of 8th semester of B.E (Biomedical Engineering) under **Regulation 2022 (CBCS)** for the batch of students admitted in 2022-23 be approved (**Annexure-VI**).

33.11.2 To consider the curriculum of B.E (Biomedical Engineering) under **Regulation 2025 (CBCS)** for the batch of students admitted in 2025-26.

RESOLVED that the curriculum of B.E (Biomedical Engineering) under **Regulation 2025 (CBCS)** for the batch of students admitted in 2025-26 be approved (**Annexure-VII**).

The BoS members presented their suggestions as mentioned below:

Dr. G. Kavithaa, University Nominee, suggested that recent editions of textbooks should be included for all subjects. She also recommended verifying and validating the CO–PO mapping for all courses.

Dr. Sasikumar K, Subject Expert, advised modifying the unit titles of the course “Biomedical Nanotechnology” and emphasized that the GATE syllabus should be appropriately incorporated into the curriculum and course syllabus.

Mr. S. Kumar, Industry Nominee, suggested the inclusion Regulatory pathways for medical devices -CDSCO, FDA, NMPA in the subject Bioethics, IPR and Entrepreneurship.

Mr. Vimal Raj, Alumni Representative, recommended incorporating Product Design and Lifecycle Management (PDLM) topics into the Medical Device Design course.

The Board of Studies (BoS) members advised removing certain topics from the course “Hospital Waste Management,” as the syllabus was found to be extensive for the students. They also suggested including relevant case studies across all subjects, with particular emphasis on the course “Robotics in Medicine.”

33.12 Resolutions to be passed

33.12.1 To consider the Continuous Assessment (Internal) and End Semester Assessment (External) Marks ratio under **Regulation 2025 (CBCS)** (**Annexure-VIII**)

RESOLVED that the Continuous Assessment (Internal) and End Semester Assessment (External) Marks ratio under **Regulation 2025 (CBCS)** be approved (**Annexure-VIII**)

33.12.2 To consider the panel of examiners for the evaluation process

RESOLVED that the panel of examiners for the evaluation process be approved (**Annexure-IX**).

33.13 Vote of Thanks

The meeting was concluded by Dr. N. Bagyalakshmi, Associate Professor/ Biomedical Engineering proposed the vote of thanks for all the members for attending the meeting and for giving valuable suggestions.

Approval & Recommendations

Based on the suggestions and recommendations given by the members, BoS resolved to recommend the above discussed items to the Academic Council for further approval.

Sl. No	Name	Signature
1	Dr. G. Kavithaa, M.E.,PhD.,	Online
2	Dr. Sasikumar K, M.Tech.,PhD	Sasikumar
3	Dr N.Sriraam, M.E.,PhD	AB
4	Mr.S. Kumar,B.E., M.S.,	S. Kumar
5	Mr.S. Vimalraj ,B.E.,	Vimalraj
6	Dr.N.Bagyalakshmi	N. Bagyalakshmi
7	Dr.V.P.Krishnammal	V.P. Krishnammal
8	Prof. P.Ganesh Babu	P. Ganesh Babu
9	Prof.C.Sathish Kumar	C. Sathish Kumar
10	Prof. M. Kaviyarasu	M. Kaviyarasu
11	Prof.S. Sivaranjani	S. Sivaranjani
12	Prof.L. Labincy	L. Labincy

Date: 10.01.2026

S. Sivaranjani
10/1/26
Chairperson

Chairman, Board of Studies
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Krishnagiri (Dt), Tamil Nadu.