

Minutes of the 14th Board of Studies Meeting

Venue: BME Board Room (Hybrid mode)

Date: 25.04.2026

Meeting ID: 977 7287 8269

Time: 02:00 PM

Agenda:

1. Action Taken Report on the recommendations of the previous BoS meeting.
2. Approval of curriculum structure and syllabus (Semesters V to VIII) under Regulations 2025.
3. Approval of Professional Elective verticals and Open Electives.
4. Proposal for new additional credit courses (e.g., 1CC, VAC, MOOC, etc.) under Regulations 2025.
5. Ratification of items, if any.
6. Any other matter brought by the Chair

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	Dr. K. S. Tamilselvan Professor and Head, Department of BME, KPRIET, Coimbatore	Chairman	 25/04/2026
2.	Dr. P. Nirmalkumar Professor, Department of Electronics and Communication Engineering, Anna University, Chennai – 600 025	University Nominee	 25/4/26.
3.	Dr. S. Ramakrishnan Professor, Department of Biomedical Engineering, IIT Madras, Chennai – 600036	Academic Expert-1	ONLINE
4.	Dr. Mirza S. Baig Professor, Department of Biomedical Engineering, IIT Indore, Madhya Pradesh – 453552	Academic Expert-2	ONLINE
5.	Mr. Sriram.C.G. Head Factory, BPL Medical Technologies Pvt. Ltd., Chandra Nagar P.O., Palakkad – 678 007	Industry Expert	ONLINE

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6.	Dr. K. Rajasekaran Professor, Department of BME, KPRIET	Faculty Member	<i>Rajasekaran</i> 25/4/2026
7.	Dr. P. Sreelatha Professor, Department of BME, KPRIET	Faculty Member	<i>Sreelatha</i> 25/4/26
8.	Dr. D. Sudarvizhi Associate Professor, Department of BME, KPRIET	Faculty Member	<i>Sudarvizhi</i> 25/4/26
9.	Dr. A. Allwyn Gnanadas Assistant Professor (III), Department of BME, KPRIET	Faculty Member	<i>Allwyn</i> 25/4/26
10.	Dr. T. Gayathri Assistant Professor (III), Department of BME, KPRIET	Faculty Member	<i>T. Gayathri</i> 25/4/26
11.	Dr. N. Rajasingam Assistant Professor (III), Department of BME, KPRIET	Faculty Member	<i>N. Rajasingam</i> 25/4/26
12.	Dr. P. Arunkumar Assistant Professor (III), Department of BME, KPRIET	Faculty Member	<i>P. Arunkumar</i> 25/4/26
13.	Mr. R. Krishna Kumar Assistant Professor (II), Department of BME, KPRIET	Faculty Member	<i>R. Krishna Kumar</i> 25/4/26
14.	Ms. Pinki Dey Assistant Professor (II), Department of BME, KPRIET	Faculty Member	<i>Pinki Dey</i> 25th Apr 2026
15.	Ms. Payel Das Assistant Professor (I), Department of BME, KPRIET	Faculty Member	<i>Payel Das</i> 25 April 2026
16.	Ms. S. Kanimozhi Assistant Professor (I), Department of BME, KPRIET	Faculty Member	<i>S. Kanimozhi</i> 25/4/26
17.	Ms. R. Monisha, AP (I)/BME Assistant Professor (I), Department of BME, KPRIET	Faculty Member	<i>Monisha</i> 25/4/26
18.	Mr. S. Santhosh Kumar, Technical Manager, Prashan Medical Technologies, Coimbatore – 641 004	Alumna (2021 – 2025)	ONLINE

Minutes of the 14th Meeting of the Board of Studies:

The meeting started with the Chairman, Department of Biomedical Engineering welcoming the members of the Board of Studies and continued with a presentation on Vision, Mission, POs, PEOs, PSOs, Syllabus content of Professional Electives and Additional One Credit Courses offered under Regulations 2021 and R2025 curriculum structure.

Following points were discussed at the 14th Board of Studies meeting.

RESOLUTIONS:

1. Action taken on the minutes of the 13th BOS meeting:

S.No.	Suggestion	Action Taken
1.	Suggested to include tutorial hours for the subject - Biosignal signal Processing	Tutorial hour added for Biosignal Processing
2.	Suggested to include Project component in the 3 rd semester subject	Introduced in Biomaterials

3. Curriculum and Syllabi for Sem I and Sem II under Regulations 2025R

Dr.K.S.Tamilselvan presented the curriculum and syllabi from 2025R UG programme – Semester I and semester II and the Board approved and recommended the same to the standing committee of the Academic council for discussion:

S.No.	Semester	Subjects
1.	Semester I	1. U25REN01 - Professional Communication – I 2. U25RMA101 - Multivariable Calculus and Applications 3. U25RPH01 - Engineering Physics 4. U25RCSG01 - C Programming 5. U25RECG02 - Electronic Devices and Circuits 6. U25RME101 - Engineering Graphics Laboratory 7. U25RCSG03 - C Programming Laboratory 8. Language Elective – I 9. U25RMNC01 - Induction Program.

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		10. U25RMCC02 - Heritage of Tamils 11. U25RMCC04 - Environmental Science and Sustainability
2.	Semester II	1. U25REN02 Professional Communication - II 2. U25RMA202 - Linear Algebra and Complex Variables 3. U25RPH05 - Medical Physics 4. U25RCY01 - Engineering Chemistry 5. U25RCSG04 - Python Programming 6. U25RBM201 - Analog Electronics for Biomedical Applications 7. U25RGE01 - Makerspace 8. U25RCSG06 - Python Programming Laboratory 9. - Language Elective – II 10. U25RMCC01 - Universal Human Values 11. U25RMCC03 - Design Thinking 12. U25RMCC05 - Tamils and Technology

Dr.K.S.Tamilselvan presented the curriculum and syllabi form 2025 UG programme – Semester III to semester VIII and the Board approved and recommended the same to the standing committee of the Academic council for discussion:

3.	Semester I II	1. U25MA302 - Probability and Statistics 2. U25BM301 - Human Anatomy and Physiology 3. U25BM302 - Biomedical Sensors and Instrumentation 4. U25ECG02 - Digital System Design 5. U25CSG12 - Data Structures 6. U25BM303 Biomaterials 7. U25BM304 - Human Anatomy and Physiology Laboratory 8. U25BM305 - Biomedical Sensors and Instrumentation Laboratory
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		9. U25ECG03 – Digital System Design Laboratory 10. Essence of Indian Traditional Knowledge
2.	Semester IV	1. U25MA402 - Stochastic Processes in Engineering Systems 2. U25BM401 - Microbiology and Pathology 3. U25BM402 - Hospital Administration 4. U25CSG11 - Object Oriented Programming using Java 5. U25BM403 - Biophysical Signals and Systems 6. U25BM404 - Microbiology and Pathology Laboratory 7. U25CSG13 - Object Oriented Programming using Java Laboratory 8. Open Elective – I 9. Indian Constitution
3.	Semester V	1. U25BM501 – Biosignal Processing 2. U25BM502 – Physiological Biocontrol Systems 3. U25BM503 – Microcontroller and its Applications 4. Professional Elective – I 5. Professional Elective – II 6. Open Elective – II (IKS Courses for few Dept. / Entrepreneurship & Innovation Courses for few Dept.) 7. U25BM504 – Biosignal Processing Laboratory 8. U25BM505 – Microcontroller Laboratory
4.	Semester VI	1. U25BM601 – Diagnostic and Therapeutic Equipment 2. U25BM602 – Biomechanics 3. U25BM603 – Biomedical Testing and Calibration 4. Professional Elective – III 5. Professional Elective – IV 6. Open Elective – III (IKS Courses for few Dept. /

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		Entrepreneurship & Innovation Courses for few Dept.) 9. U25BM604 – Diagnostic and Therapeutic Equipment Laboratory
7.	Semester VII	1. U25BM701 – Radiological Equipment 2. U25BM702 – Medical Image Processing 3. U25BM703 – Rehabilitation Engineering 4. Professional Elective – III 5. Professional Elective – IV 6. Open Elective – IV (IKS Courses for few Dept. / Entrepreneurship & Innovation Courses for few Dept.) 7. U25BM704 – Medical Image Processing laboratory 7. U25BM705 – Project Phase – 1
8.	Semester VIII	1. U25BM801 – Project work Phase - II 8. MOOC/ Professional Certification

2. Open Elective Course

The following Open Elective course is approved by the board for offering,

- U25BMX02 - Digital Health and Human Care Systems Engineering

3. Industry/Academic inputs on curriculum design

- Mr. Boopathi Sathivel, Prashan Medical Technologies, Coimbatore recommended incorporating practical case studies and application-based learning related to biomedical devices, rehabilitation technologies, and healthcare equipment.
- Mr. A. Mohamed Arif, Sree Mahalakshmi Technology Solutions, Coimbatore to strengthen industry-oriented components in the curriculum to ensure alignment with current trends, emerging technologies, and professional requirements in the healthcare and biomedical sectors.

- Mr. P. Ramesh, Assistant Manager, Lotus Eye Hospital suggested to include case studies in Medical systems vertical.

4. Industry Oriented Courses

The following courses are approved by the board for offering as Industry Oriented One Credit Course during the Odd semester of Academic year 2026 - 2027

- IOT & Edge Computing – will be offered for III semester
- Healthcare Data Acquisition and Monitoring Systems – will be offered for V semester

5. Value Added Course

The following Value-added course is approved by the board for offering during the odd semester of Academic year 2026 – 2027.

- Applied Biosignal acquisition and Computational Processing – will be offered for V semester

6. Amendments if any in R2021

Nil

7. Any other matters

R2025

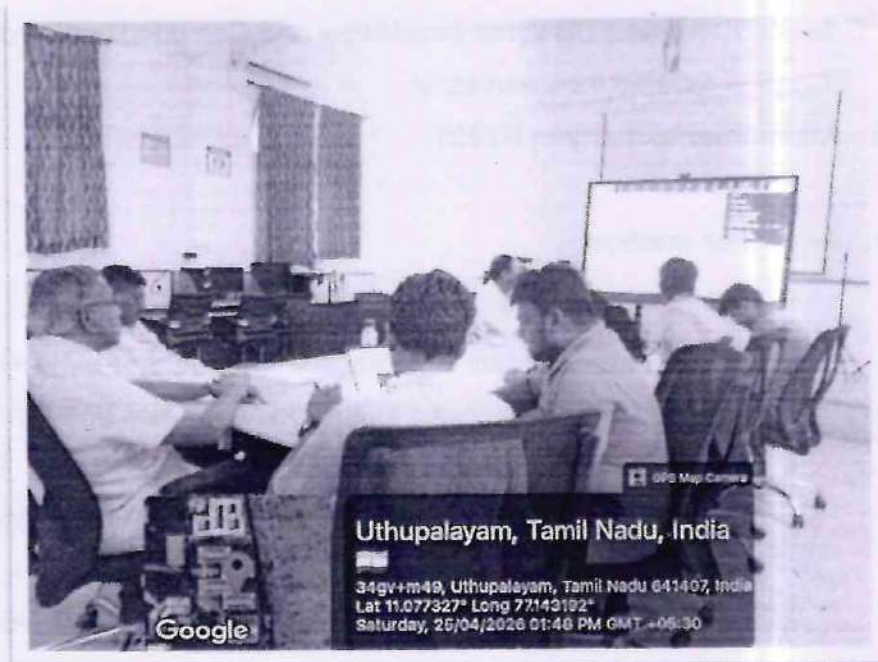
- Dr. S. Ramakrishnan, Professor, Department of Biomedical Engineering, IIT Madras recommended to include recent text book and references.
- Dr. P. Nirmalkumar, Professor, Department of Electronics and Communication Engineering, Anna University suggested to include one recent edition of text book in all the subjects.
- Dr. S. Ramakrishnan, Professor, Department of Biomedical Engineering, IIT Madras recommended to reduce the course contents in Biosignal Processing to ensure better alignment with credit hours and to provide students with a more manageable, fundamentals focused learning experience.
- Dr. S. Ramakrishnan, Professor, Department of Biomedical Engineering, IIT Madras recommended to realign AIML applications in Medical Image Processing.
- Dr. Mirza S. Baig, Professor, Department of Biomedical Engineering, IIT Indore suggested to include one basic book as introduction in Diagnostic and Therapeutic Equipment.

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- Dr. Mirza S. Baig, Professor, Department of Biomedical Engineering, IIT Indore suggested to change the Unit V title in biomechanics.
- Mr. Sriram.C.G. Rajesh, Head Factory, BPL Medical Technologies suggested to include MDR in vertical II.
- Mr. S. Santhosh Kumar, Technical Manager, Prashan Medical Technologies suggested to include STM32 microcontroller in the Microcontroller subject.



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Chairman – BoS/BME