

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638 057



Department of Biomedical Engineering 4th BOARD OF STUDIES MEETING

31st December 2021 @ 10.00 a.m.

GOOGLE ONLINE MEET

Link: <https://meet.google.com/sax-xpnk-jcf>



ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI - 638057

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



DEPARTMENT OF BIOMEDICAL ENGINEERING

04th Board of Studies Meeting

Mode: Through Online (Meeting Link: <https://meet.google.com/sax-xpnk-jcf>)

Date & Time: 31.12.2021 & 10.00 a.m.

AGENDA

The 04th Board of Studies Meeting is convened to get the approval for the Curriculum and Syllabi for the Semesters VII & VIII, Professional Electives, Open Electives offered by Biomedical Engineering, and Universal Human Values courses offered by AICTE.

BoS / BME 4.1	Welcome address and opening remarks by Chairman, Board of Studies in the Department of Biomedical Engineering
BoS / BME 4.2	Confirmation of the 3 rd Board of Studies Meeting Minutes of the Department of Biomedical Engineering and Action taken report of 3rd Board of Studies meeting.
BoS / BME 4.3	To consider and approve the curriculum: VII and VIII Semester for B.E. BME Programme.
BoS / BME 4.4	To consider and approve the Syllabi: VII and VIII Semester courses for B.E. BME Programme
BoS / BME 4.5	To consider and approve Professional Electives courses for B.E. BME Programme
BoS / BME 4.6	To consider and approve Open Electives offered by Biomedical Engineering Department
BoS / BME 4.7	To Consider and Approve Universal Human Values courses offered by AICTE
BoS / BME 4.8	Any other Matter

DEPARTMENT OF BIOMEDICAL ENGINEERING

MINUTES OF THE MEETING

The 04th Board of Studies meeting of Department of Biomedical Engineering was held on 31st December 2021 at 10.00 a.m. through online.

1. The following members were present:

1	Dr. S. Karthick Associate Professor & Head Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman
2	Dr. V. Venkatachalam Principal, Erode Sengunthar Engineering College, Perundurai.	Member
3	Dr. R. Kalaivani, Professor, Department of Electronics and Communication Engineering, Erode Sengunthar Engineering College, Perundurai.	Member
4	Dr. M. Ramasubba Reddy, Professor, Department of Applied Mechanics, Indian Institute of Technology, Chennai	University Nominee
5	Dr. J. Krishnan, Professor, Department of Instrumentation Engineering, Annamalai University, Chidambaram, Cuddalore District.	Academic Experts
6	Dr. P. Manimegalai, Associate Professor, Department of Biomedical Engineering, School of Engineering and Technology, Karunya Institute of Technology and Sciences, Coimbatore.	
7	Mr. V. Angappa, Managing Director, Mega Tech Scientific Instruments, 70, Rajunaidu Street, Sivanandha Colony, Coimbatore.	Industry Expert
8	Dr. M.Sundaram, Professor / BME Erode Sengunthar Engineering College, Perundurai	Internal Members
9	Dr.V.Premchandran, Associate Professor / BME Erode Sengunthar Engineering College, Perundurai	

10	Dr.M.N.Saravana Kumar, Associate Professor / BME Erode Sengunthar Engineering College, Perundurai	Internal Members
11	Mr. K. Balasubramanian, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
12	Mr. R.Shankar, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
13	Mrs. T.Yamuna, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
14	Mrs. M. Divya, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
15	Mrs. K.K.Leka, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
16	Ms. M.Mohanavalli, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
17	Ms. N.Ageela, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	

BoS / BME 4.1	:	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 4.2	:	CONFIRMATION OF THE 3rd BOARD OF STUDIES MEETING MINUTES OF THE DEPARTMENT OF BIOMEDICAL ENGINEERING AND ACTION TAKEN REPORT OF 3rd BOARD OF STUDIES MEETING.
		The Chairman, BOS of the Biomedical Engineering briefed about the changes made in the Regulation 2019 Semester I to VIII syllabus of B.E. BME and action taken report of the 3 rd Board of Studies Meeting.

BoS / BME 4.3	:	TO CONSIDER AND APPROVE THE CURRICULUM: VII AND VIII SEMESTER FOR B.E. BME PROGRAMME
		<p>The Chairman, BOS of the Biomedical Engineering presented the Regulation 2019 curriculum of VII and VIII Semester B.E.BME among the Board of Studies members.</p> <p>The BoS members suggested the following:</p> <ul style="list-style-type: none"> • Dr. S.Manimegalai suggested to include Artificial Intelligence and Machine Learning based Curriculum in Semester VI, • Mr. V. Angappa suggested to Artificial Intelligence and Machine Learning based Curriculum possible to select department of Computer Science and Engineering Curriculum or frame with discussion of department of Computer Science and Engineering. • All BoS members agreed the same,
BoS / BME 4.4	:	TO CONSIDER AND APPROVE THE SYLLABI: VII AND VIII SEMESTER COURSES FOR B.E. BME PROGRAMME.
		<p>The BoS members suggested the following:</p> <ul style="list-style-type: none"> • Dr.S.Manimegalai suggested including Artificial Intelligence and Machine Learning based syllabus and suggested to include big data and deep learning applications related to the course. • Mr. V. Angappa suggested to Artificial Intelligence and Machine Learning based syllabus can be framed with interaction of Computer Science and Engineering department. • For the remaining subjects all the BoS members accepted.
BoS / BME 4.5	:	TO CONSIDER AND APPROVE PROFESSIONAL ELECTIVES OFFERED BY BIOMEDICAL ENGINEERING DEPARTMENT
		<p>The Chairman, BOS of the Biomedical Engineering presented the Professional Electives of the Regulation 2019 B.E.BME among the Board of Studies members.</p> <p>The BoS members suggested the following:</p> <ul style="list-style-type: none"> • Dr.S.Manimegalai suggested to in “19BMX25 – Medical Optics” course, Unit V title changed as “Optics in medicine” instead of “Advanced methods in Optics” and recommended to added to Photoplethysmography application in Unit – II,

		<ul style="list-style-type: none"> • Dr. M. Rammasubba Reddy suggested to show variations in the subject title in Professional Electives and Open Electives, • Dr. J. Krishnan suggested to include the prerequisite of the Open Elective subjects, • Dr.S.Manimegalai suggested to change course title “ 19BMX23 – Medical Textiles Fundamentals” as “ 19BMX23 – Fundamentals of Medical Textiles”, • Dr.S.Manimegalai suggested to include some more text book for the course “19BMX23 – Fundamentals of Medical Textiles” • Dr.S.Manimegalai suggested to in course “19BMX24 – Wearable Systems”, Unit IV title as Health Care Systems instead of Wireless Health System, • Mr. V. Angappa suggested to course “19BMX24 – Wearable Systems” added to some defense application in Unit V.
BoS / BME 4.6	:	TO CONSIDER AND APPROVE OPEN ELECTIVES OFFERED BY BIOMEDICAL ENGINEERING DEPARTMENT
		<p>The Chairman, BOS of the Biomedical Engineering presented the Open Electives of the Regulation 2019 offered by BME Department among the Board of Study members.</p> <p>The BoS members suggested the following:</p> <ul style="list-style-type: none"> • Dr.S.Manimegalai suggested to change course title “ 19BMY08 – Fundamentals of Biomedical Applications” as “ 19BMY08 – Design of Medical Electronic Devices”, • For the remaining subjects all the BoS members accepted.
BoS / BME 4.7	:	INCLUSION OF UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY IN THE 4 TH SEMESTER OF THE ALL U.G. PROGRAMME. (As per the Guidelines of AICTE)
		<ul style="list-style-type: none"> • The Chairman, BOS of the Biomedical Engineering presented the Syllabus of “Universal Human Values 2: Understanding Harmony” in the Board of Study members. • The BoS members approved the same.

BoS / BME 4.8	:	VOTE OF THANKS
		<p>❖ Dr. S. Karthick, Associate Professor / BME, proposed the vote of thanks for the 4th BoS meeting conducted on 31.12.2021. She 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>







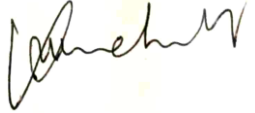






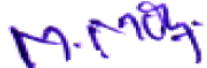

CHAIRMAN
BOARD OF STUDIES

MEMBERS PRESENT IN ONLINE

1.	Dr. S. Karthick, Professor & Head Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman
2.	Dr. M. Ramasubba Reddy, Professor, Department of Applied Mechanics, Indian Institute of Technology, Chennai	University Nominee
3.	Dr. J. Krishnan, Professor, Department of Instrumentation Engineering, Annamalai University, Chidambaram, Cuddalore District.	Academic Experts
4.	Dr. P. Manimegalai, Associate Professor, Department of Biomedical Engineering, School of Engineering and Technology, Karunya Institute of Technology and Sciences, Coimbatore.	
5.	Mr. V. Angappa, Managing Director, Mega Tech Scientific Instruments, 70, Rajunaidu Street, Sivanandha Colony, Coimbatore.	Industry Expert

MEMBERS PRESENT

1.	Dr. V. Venkatachalam Principal, Erode Sengunthar Engineering College, Perundurai.	
2.	Dr. S. Karthick, Professor & Head Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	
3.	Dr. R. Kalaivani, Professor, Department of Electronics and Communication Engineering, Erode Sengunthar Engineering College, Perundurai.	
4.	Dr. M. Sundaram, Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	

5.	Dr.V.Premchandran, Associate Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
6.	Dr.M.N.Saravana Kumar, Associate Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
7.	Mr.K.Balasubramanian, Assistant Professor, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	
8.	Mr. R.Shankar, Assistant Professor / BME, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
9.	Mrs. T.Yamuna, Assistant Professor / BME, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
10.	Mrs.M.Dhivya, Assistant Professor, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	
11.	Mrs. K.K.Leka, Assistant Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
12.	Ms. M.Mohanavalli, Assistant Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
13.	Ms. N.Ageela, Assistant Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	

Department of Biomedical Engineering

The 04th Board of studies meeting held on 31.12.2021 through the following link:

Google online meet link: <https://meet.google.com/sax-xpnk-jcf>

The screenshot shows a Google Meet interface with a presentation window on the left and a grid of participants on the right. The presentation window displays an "ACTION TAKEN REPORT" with the following table:

Sl.No	Decision	Action Taken
1	Suggested to remove the Bio Control System Subject from Semester IV to Semester V	Modified the Curriculum accordingly
2	Suggested to give more importance to Subject related to GATE examination	Modified the Curriculum accordingly
3	Suggested to remove the title in the syllabus like "supported by labours" in the curriculum but can be included in the syllabus by specifying within the text	Modified the Curriculum and Syllabus accordingly
4	Suggested to change the Professional Elective paper "Body Area Networks" as "Wearable Body Area Networks"	Modified the Curriculum accordingly
5	Suggested to include "Biomedical Waste Management syllabus in one of the sem in Hospital Waste Management"	Modified the Curriculum accordingly
6	Suggested to have medical related syllabus in Disaster Management of Unit IV and V	Modified the Unit IV and V syllabus
7	Suggested to include Covid - 19 related management topics in Disaster management	Modified the Unit V syllabus

Below the table, a message states: "To avoid an infinity mirror, don't share your entire screen or browser window. Share just a tab or a different window instead." A "Stop presenting" button is visible. The participants grid includes: poorani shivkumar, Balasubramanian K, Angappa Megatech, Ramasubba Reddy ..., Krishnan Jayaraman, Manimegalai Vairavan, Dhivya Ganesh, and You. The bottom taskbar shows the Windows taskbar with various application icons and the system clock at 10:07 AM on 12/31/2021.

The screenshot shows a Google Meet interface with a presentation window on the left and a grid of participants on the right. The presentation window displays a course syllabus with the following tables:

Code	Course	L	T	P	C	Grading			
19EM21	Clinical Engineering	1,2,3	-	3	0	0	3		
19EM22	Principles of Tissue Engineering	1, IV	6,7,8,9,10	11,12	-	3	0	0	3
19EM23	Medical Textiles Fundamentals	1, III, IV	1,2,7,10,11	2	3	0	0	3	
19EM24	Wearable Systems	1, III, IV	1,2,3,4,5,7	8,11,12	-	3	0	0	3
19EM25	Medical Optics	1, III, IV	1,2,3,7	-	3	0	0	3	

Code No	Course	Objectives & Outcomes	L	T	P	C	
		PEOs	POs	PSOs			
		10,12	-	2	0	0	0

Below the tables, a message states: "To avoid an infinity mirror, don't share your entire screen or browser window. Share just a tab or a different window instead." A "Stop presenting" button is visible. The participants grid includes: poorani shivkumar, Balasubramanian K, Ramasubba Reddy ..., Dhivya Ganesh, Dr.Manimegalai 2136, and Angappa Megatech. The bottom taskbar shows the Windows taskbar with various application icons and the system clock at 10:21 AM on 12/31/2021.