

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. V.Premchandran Associate Professor 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, Rajinai Street, Sivanandha Colony, Coimbatore.	Industry Expert
8	Mr. K. Balasubramanian, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	Internal Members
	Mr. R.Shankar, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	

10	Mrs. T.Yamuna, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	Internal Members
11	Mrs. M. Divya, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
12	Mrs. K.K.Leka, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
13	Ms. M.Mohanavalli, Assistant Professor / BME Erode Sengunthar Engineering College, Perundurai	
14	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,

		<ul style="list-style-type: none"> • 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	:	<p>TO CONSIDER AND APPROVE THE SYLLABI: VII AND VIII SEMESTER COURSES FOR B.E. BME PROGRAMME.</p> <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	:	<p>TO CONSIDER AND APPROVE PROFESSIONAL ELECTIVES OFFERED BY BIOMEDICAL ENGINEERING DEPARTMENT</p> <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, • 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”,

		<ul style="list-style-type: none"> • 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	:	<p>TO CONSIDER AND APPROVE OPEN ELECTIVES OFFERED BY BIOMEDICAL ENGINEERING DEPARTMENT</p> <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	:	<p>INCLUSION OF UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY IN THE 4TH SEMESTER OF THE ALL U.G. PROGRAMME. (As per the Guidelines of AICTE)</p> <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	:	<p>VOTE OF THANKS</p> <p>❖ Dr.V.Premchandran, 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>

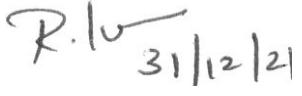


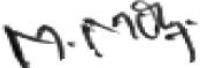
CHAIRMAN
BOARD OF STUDIES

MEMBERS PRESENT IN ONLINE

1.	Dr. V.Premchandran, Professor 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

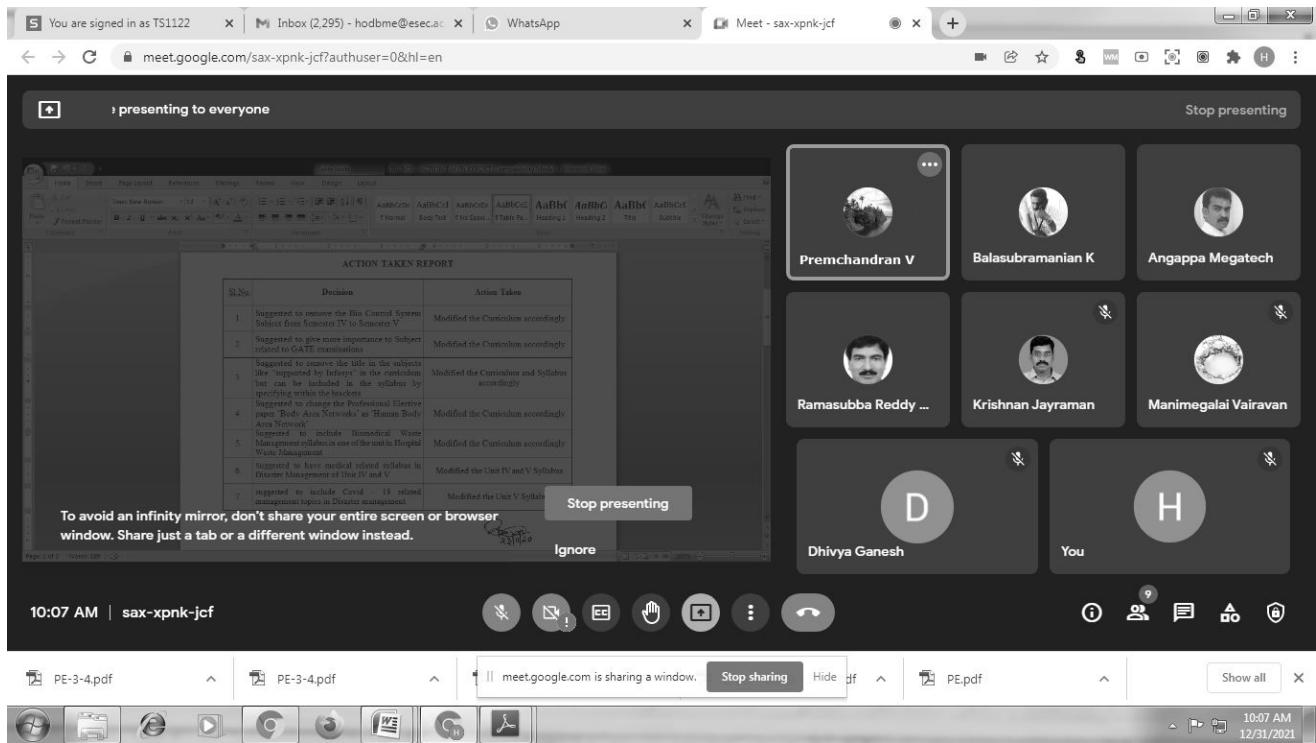
1.	Dr. V. Venkatachalam Principal, Erode Sengunthar Engineering College, Perundurai.	
2.	Dr. V.Premchandran, Professor Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	
3.	Dr. R. Kalaivani, Professor, Department of Electronics and Communication Engineering, Erode Sengunthar Engineering College, Perundurai.	
4.	Mr.K.Balasubramanian, Assistant Professor, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	

5.	Mr. R.Shankar, Assistant Professor / BME, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
6.	Mrs. T.Yamuna, Assistant Professor / BME, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
7.	Mrs.M.Dhivya, Assistant Professor, Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai.	
8.	Mrs. K.K.Leka, Assistant Professor / BME Department of Biomedical Engineering, Erode Sengunthar Engineering College, Perundurai	
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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>



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PROFESSIONAL ELECTIVE – V

19BEMX21	Clinical Engineering	I, IV	1,2,3	-	3	0	0	3
19BEMX22	Principles of Tissue Engineering	I, IV	6,7,8,9,10 11,12	-	3	0	0	3
19BEMX23	Medical Textiles Fundamentals	I, III, IV	1,6,7,10, 11	2	3	0	0	3
19BEMX24	Wearable Systems	I, III, IV	1,2,3,4,5,7 8,11,12	-	3	0	0	3
19BEMX25	Medical Optics	I, III, IV	1,2,3,7	-	3	0	0	3

MANDATORY COURSES

Code No	Course	Objectives & Outcomes			L	T	P	C
		PEOs	POs	PSOs				

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Karthick S

Balasubramanian K

Ramasubba Reddy ...

Dhivya Ganesh

Dr.Manimegalai 2136

Angappa Megatech

You

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PROFESSIONAL ELECTIVE – V

19BEMX21	Clinical Engineering	I, IV	1,2,3	-	3	0	0	3
19BEMX22	Principles of Tissue Engineering	I, IV	6,7,8,9,10 11,12	-	3	0	0	3
19BEMX23	Medical Textiles Fundamentals	I, III, IV	1,6,7,10, 11	2	3	0	0	3
19BEMX24	Wearable Systems	I, III, IV	1,2,3,4,5,7 8,11,12	-	3	0	0	3
19BEMX25	Medical Optics	I, III, IV	1,2,3,7	-	3	0	0	3

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Premchandran V

Balasubramanian K

Ramasubba Reddy ...

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