



# EXCEL ENGINEERING COLLEGE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NBA and NAAC with 'A+' and Recognized by UGC(2f&12B)  
KOMARAPALAYAM - 637303

## DEPARTMENT OF BIOMEDICAL ENGINEERING FOURTH BOARD OF STUDIES MINUTES OF MEETING

Meeting No : EEC/BM/BoS/4  
Date : 29<sup>th</sup> April'2023  
Time : 2 pm  
Venue : Kandasamy Seminar Hall, 2<sup>nd</sup> Floor, Main Building Block

### AGENDA

- B.BM.4.1** To discuss and pass the syllabus of VII Semester to B.E Biomedical engineering programme for the students admitted from the academic year 2020 – 2021 onwards under Regulation 2020.
- B.BM.4.2** To discuss and pass the courses for B.E. (Honors) specialization in the same discipline and B.E. (Honors) for the students admitted from the academic year 2021-2022 onwards under Regulation 2020 / V2
- B.BM.4.3** To discuss and pass the curriculum and syllabi of Minor Degree programme in BIOINFORMATICS for the students admitted from the academic year 2021 – 2022 onwards under Regulation 2020 / V2.
- B.BM.4.4** To discuss and pass the curriculum of B.E Biomedical engineering for the students admitted from the academic year 2023 – 2024 onwards under Regulation 2023.
- B.BM.4.5** To discuss and pass the first year/ first semester syllabi of B.E Biomedical engineering for the students admitted from the academic year 2023 – 2024 onwards under Regulation 2023.
- B.BM.4.6** Any other matters.

## Resolutions

**B.BM.4.1** Resolved that the following recommendations may be passed to the standing committee of the Academic Council for the syllabus of VII Semester B.E Biomedical engineering programme with the following changes.

### Semester- VII

RECOMMENDATION	RESOLUTION
<b>B.BM. 4.1.1</b> Dr.D.Selvathi and Dr.N.Sriram have suggested that the Professional ethics and Hospital management course may be changed to Hospital management course and also remove professional ethics topics because Medical ethics courses already exist.	<b>B.BM.R. 4.1.1</b> Course name has changed to Hospital management and also removed the Professional ethics topics as per suggestion.
<b>B.BM. 4.1.2</b> Dr,N.Sriram and Dr.D.Selvathi have expressed that the Biomedical Image analysis course may be changed to Medical Image Processing. Dr.D.Selvathi has appreciated that the content of the syllabus are worthy topics. Biomedical Image analysis Laboratory course may be changed to Medical Image Processing Laboratory. Content beyond syllabus should be added in Laboratory course	<b>B.BM.R. 4.1.2</b> Course name has been changed to both theory course and Laboratory course as Medical Image Processing as per recommendation. As per recommendation, content beyond syllabus is incorporated in the laboratory course.
<b>B.BM. 4.1.3</b> Dr.N.Sriram and Dr.D.Selvathi have suggested appropriate bloom's taxonomy level for each course outcome to be verified.	<b>B.BM.R.4.1.3</b> The bloom's taxonomy level for each course outcome has corrected and verified
<b>B.BM. 4.1.4</b> Alumni have suggested including more professional electives with the latest technology which gives job opportunities.	<b>B.BM.R.4.1.4</b> Additional Professional electives are added in three streams as per suggestion.

**B.BM.4.2** Resolved with discussion and passed the courses for B.E. (Honors) specialization in the same discipline and B.E. (Honors) for the students admitted from the academic year 2021-2022 onwards under Regulation 2020 / V2

**B.BM.4.3** Resolved that the following recommendations may be passed the curriculum and syllabi of Minor Degree programme for the students admitted from the academic year 2021 – 2022 onwards under Regulation 2020 / V2.

RECOMMENDATION	RESOLUTION
<p><b>B.BM. 4.3.1</b></p> <p>The members suggested to change the name of the minor degree and also suggested that it include basic courses like fundamentals of biomedical, AI in healthcare and human body</p>	<p><b>B.BM.R. 4.3.1</b></p> <p>Minor degree programme name has been changed to BIOINFORMATICS and appropriate modification of course name and its order of sequence for minor degree done.</p>

**B.BM.4.4** Resolved that the following recommendations may be passed the curriculum of B.E Biomedical engineering for the students admitted from the academic year 2023 – 24 onwards under Regulation 2023.

RECOMMENDATION	RESOLUTION
<p><b>B.BM. 4.4.1</b></p> <p>Dr.D.Selvathi suggested for change of course name that the Fundamentals of biosciences course to rename as Clinical biochemistry.</p>	<p><b>B.BM.R. 4.4.1</b></p> <p>Fundamentals of biosciences course is renamed as Clinical biochemistry as per suggestion.</p>
<p><b>B.BM. 4.4.2</b></p> <p>The members suggested that the Circuit theory course may be incorporated as Signals and Systems for Bioengineers.</p>	<p><b>B.BM.R. 4.4.2</b></p> <p>Circuit theory course is reframed as Signals and Systems for Bioengineers as per suggestion.</p>
<p><b>B.BM. 4.4.3</b></p> <p>The members suggested to include pathology and microbiology course in third or fourth semester.</p>	<p><b>B.BM.R. 4.4.3</b></p> <p>As per recommendation, pathology and microbiology course is included in fourth semester.</p>
<p><b>B.BM. 4.4.4</b></p> <p>The members discussed about Design Thinking and Mini Project course and its nature of assessment in R2023 sixth semester.</p>	<p><b>B.BM.R. 4.4.4</b></p> <p>As per recommendation, standing committee will provide guidance for Design Thinking and Mini Project course in R2023 sixth semester its assessment methods and BoS members suggested to use any virtual tool like LabVIEW or MATLAB GUI</p>

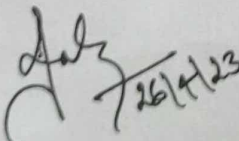
<p><b>B.BM. 4.4.5</b> The members discussed about Hospital Training course and its nature of assessment in R2023 seventh semester.</p>	<p>B.BM.R. 4.4.5 As per recommendation, weightage in Internal and External industry persons evaluation components are incorporated for Hospital Training course and its assessment in R2023 seventh semester</p>
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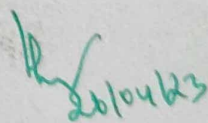
**B.BM.4.5** Resolved and recommended following suggestions for passing the first year/ first semester syllabi of B.E Biomedical engineering for the students admitted from the academic year 2023 – 2024 onwards under Regulation 2023.

RECOMMENDATION	RESOLUTION
<p><b>B.BM. 4.5.1</b> Dr.D.Selvathi suggested for changes in syllabus of clinical biochemistry course.</p>	<p><b>B.BM.R. 4.5.1</b> Clinical biochemistry syllabus content has been made as per suggestion.</p>
<p><b>B.BM. 4.5.2</b> The members suggested to include Biostatistics as a main course.</p>	<p><b>B.BM.R. 4.5.2</b> Biostatistics course content has been incorporated as per suggestion.</p>
<p><b>B.BM. 4.5.3</b> The members suggested to make changes in IoT for medicine to IoT for healthcare and its syllabus.</p>	<p><b>B.BM.R. 4.5.3</b> As per recommendation, IoT for healthcare and its syllabus has been made updated</p>
<p><b>B.BM.4.5.4</b> The BoS members suggested to include and establish practical courses like Biomechanics OpenSim, Xbox tools, Gait Analysis and 3D Printer / 3D Modelling including CFD tools for healthcare and its syllabus.</p>	<p><b>B.BM.4.5.4</b> As per recommendation, Biomechanics OpenSim, Xbox tools, Gait Analysis and 3D Printer / 3D Modelling including CFD tools for healthcare and its syllabus has been made updated</p>

4.6.1 Resolved that the professional Elective and open elective courses were approved.

4.6.2 Resolved that the Syllabi of one credit courses are approved.

  
Chairman - Board of Studies

  
Principal



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## DEPARTMENT OF BIOMEDICAL ENGINEERING FOURTH BOARD OF STUDIES

Members Present:

S.No	Name and Affiliation	Designation	Signature
1	Dr.K.Bommanna Raja Professor/BME	Principal	
2	Dr.B.Balasubramanian Professor & Head, BME	Chairman-BME, BoS	 29/3/23
3	Dr. D.Selvathi Senior Professor, Department of Electronics and Communication Engineering, Mepco Schlenk Engineering College Sivakasi	University Nominee	 29/3/23
4	Dr. R Periyasamy Assistant Professor, Dept. of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli	Subject Expert	ABSENT
5	Dr .N. Sriraam Professor, Department of Medical Electronics Ramaiah Institute of Technology Bangalore	Subject expert	
6	Dr. G Muralidhar Bairy Associate Professor (Sr scale) and HOD Biomedical Engineering, Manipal Institute of Technology	Subject expert	ABSENT
7	Mr. Shanthakumar, Managing Director, Vital Bio-Systems Pvt. Ltd, Chennai	Industry representative	ABSENT

8.	Ms. T.Hemapreetha, B.E. Clinical Ultrasound product Specialist BPL Medical Technologies Cochin	Industry representative	ABSENT
9	Dr.G.Prakash Professor/BME	Faculty member	<i>Prakash</i> 29/6/23
10	Dr.Sateesh Reddy Avutu Assistant Professor	Faculty member	<i>A.S.B</i>
11	Dr.Saroj Kumar Sah Assistant Professor	Faculty member	<i>Saroj</i>
12	Mrs.R.Geetha Assistant Professor	Faculty member	<i>R.Geetha</i>
13	Mrs.K.Rokini Assistant Professor	Faculty member	<i>K.Rokini</i>
14	Ms.M.K.Prabavathi Assistant Professor	Faculty member	<i>M.K. Prabavathi</i>
15	Mrs.Deepa Assistant Professor	Faculty member	<i>Deepa</i>
16	Ms.Jini Thomas Assistant Professor	Faculty member	<i>Jini</i>
17	Ms.Lavanya Assistant Professor	Faculty member	<i>Lavanya</i>
18	Ms.Sandhiya Assistant Professor	Faculty member	<i>R. Sandhiya</i>
19	Mr.S.Muniyan	Alumni	<i>Muniyan</i>
20	Ms.T.Megaladevi	Alumni	<i>Megaladevi</i>



 **GPS Map Camera**

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