



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 SECOND BOARD OF STUDIES MINUTES OF MEETING

Meeting No : EEC/BM/BoS/2
Date : 30.06.2021
Time : 02.30 pm
Venue : Online Mode (Via Google meeting)
Link : <https://meet.google.com/xnf-jpcu-bdo>

Agenda:

1. To discuss and pass the amended curriculum of regulation(R2020) for the B.E. Biomedical Engineering Program for those students admitted from 2020-21 academic year
2. To discuss and pass the syllabi of the courses pertinent to 2nd year (3rd and 4th Semester) of B.E. Biomedical Engineering Program for the students admitted from 2020-21 academic year onwards
3. To discuss and pass the Syllabi of subjects offered to other departments
4. To discuss and pass the syllabi of Employment Enhancement Courses called "one credit courses" offered in the second year (3rd and 4th Semester) of B.E (Biomedical Engineering) program and its syllabus from AY2021-22 onwards
5. Any other Matters

Resolutions

1. Resolved that the following recommendations may be passed to the standing committee of the Academic Council for the curriculum and syllabi of B.E. Biomedical Engineering program with the following changes.

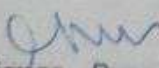
Semester- III

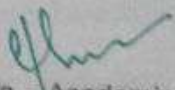
RECOMMENDATION	RESOLUTION
B.BM. 2.1 Dr.D.Selvathi and Dr. G Muralidhar Baiyy have suggested and recommended amended curriculum of BME regulation(R2020) and its incorporation in 3 rd Semester	B.BM.R. 2.1 Amended curriculum of Regulation (R2020) with following changes and its details in 3 rd Semester <ul style="list-style-type: none">• 20EC301 Signals and Systems amended to 20BM301 Signals and Systems for Bioengineers• 20BM303 Sensors and measurements amended to 20BM304 Biosensors and Measurements
B.BM. 2.2 Dr.D.Selvathi and Dr. G Muralidhar Baiyy have suggested that the content of Signal and System for Bioengineers were too advanced for 3 rd Sem level	B.BM.R. 2.2 Syllabus contents are reduced as per suggestion
B.BM. 2.3 Mr.Niranjan Kumar and Mr. Shanthakumar have expressed that the syllabus should be at par with industry expectation and suggestion to include advance biomedical equipment's which are high demand in industry	B.BM.R. 2.3 The content in syllabi with advance medical equipment's were added as suggested by industry experts
B.BM. 2.4 Mr. Shanthakumar, suggested to include soft skills training may be included in third semester onwards	B.BM.R. 2.4 Soft skills content is included from fourth semester onwards as per suggestion.
B.BM. 2.5 Dr. G Muralidhar Baiyy and Dr.D.Selvathi have recommended keep two minimum text books and three reference books	B.BM.R. 2.5 Two text books and three references books are incorporated in the syllabus as per recommendation
B.BM. 2.6 Dr. G Muralidhar Baiyy and Dr.D.Selvathi have recommended to include biomedical application for laboratory courses	B.BM.R. 2.6 Biomedical applications experiments are incorporated in the laboratory courses as per recommendation.

Semester- IV

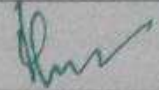

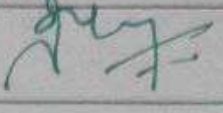
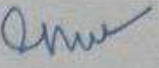
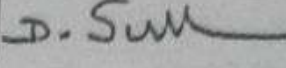
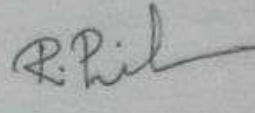
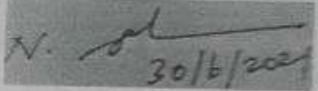
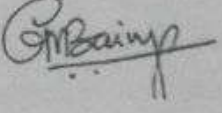


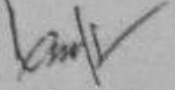
RECOMMENDATION	RESOLUTION
B.BM. 2.7 Dr.D.Selvathi and Dr. G Muralidhar Bairy have suggested and recommended amended curriculum of BME regulation(R2020) and its incorporation in 4 th Semester	B.BM.R. 2.7 Amended curriculum of Regulation (R2020) with following changes and its details in 4 th Semester <ul style="list-style-type: none"> • 20EC402 Linear Integrated Circuits amended to 20BM402 Medical and Radiation Physics • 20BM402 Digital Electronics amended to 20BM401 Digital Electronics • 20BM403 Biomedical Instrumentation amended to 20BM403 Healthcare Data Analytics
B.BM. 2.8 Dr. G Muralidhar Bairy and Dr.D.Selvathi have suggested to include text books should be latest edition	B.BM.R. 2.8 Latest edition of text books for core subjects are included as per suggestion.
B.BM. 2.9 Dr.D.Selvathi suggested that the content of the topics should be in organizing manner and also units should be interlinked.	B.BM.R. 2.9 All the courses are organized and verified as per suggestion.
B.BM. 2.10 Dr.Sriram advised to add medical ethics and regulatory affairs as a core subject in curriculum.	B.BM.R. 2.10 As per recommendation, medical ethics course is included as a core subject in VI Semester

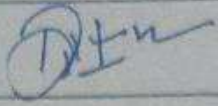
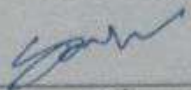
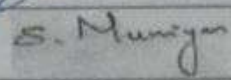
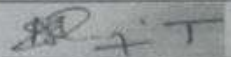
2. Dr.Sriram and Dr. G Muralidhar Bairy have advised to change the title of the courses for microcontroller and its application and medical image processing in curriculum.
3. Resolved that the curriculum and syllabus for III, IV, V, VI, VII and VIII Semester's will be followed for B.E, Biomedical Engineering program as per the amended regulation R2020 here after for the students admitted from 2020-21 academic year onwards
4. Resolved that Employment Enhancement Courses called one credit courses are included which is relevant to biomedical engineering as per recommendation.


 Chairman - Board of Studies


 Chairman - Academic Council

Members Present:

S.No	Name and Affiliation	Designation	Signature
1	Dr.K.Bommanna Raja Professor/BME	Executive Director/Principal	
2	Dr. R.Nallusamy Director Administration	BoS Member	
3	Dr.B Balasubramanian Professor & Head, BME	Chairman – BME, BoS	
4	Dr.G.Prakash Professor/BME	Professor	
5	Dr. D.Selvathi Senior Professor, Department of Electronics and Communication Engineering, Mepco Schlenk Engineering College Sivakasi	University Nominee	
6	Dr. R Periyasamy Assistant Professor, Dept. of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli	Subject Expert	
7	Dr .N. Sriraam Professor and Head, Department of Medical Electronics Ramaiah Institute of Technology Bangalore	Subject expert	 30/6/2021
8	Dr. G Muralidhar Bairy Associate Professor (Sr scale) and HOD Biomedical Engineering, Manipal Institute of Technology	Subject expert	
9	Mr. Shanthakumar Managing Director, Vital Bio-Systems Pvt. Ltd, Chennai	Industry representative	
10	Mr.P.Chinnadurai, Project Manager Jasmine-infotech, chennai	Industry representative	
11	Mr.Niranjana Kumar KRM Managing Director KPI Healthcare India, Kerala	Industry representative	
12	Mr. Gurumoorthy Durairajan General Manager - Business Development & KAM Dr.Bio Hi-Tech International, Chennai. email: gurumoorthyd@gmail.com Mobile: 8056492929	Industry representative	
13	Ms. T.Hemapreetha, B.E. Clinical Ultrasound product Specialist BPL Medical Technologies	Industry representative	ABSENT

	Cochin		
14	Ms.M.K.Prabavathi Assistant Professor	Faculty member	
15	Mrs. Deepa Assistant Professor	Faculty member	
16	Ms. Ambika Assistant Professor	Faculty member	
17	Ms. S. Sasikala Assistant Professor	Faculty member	
18	Mr. S. Muniyan	UG Student	
19	Ms. T. Megaladevi	UG Student	

Biomedical Engineering - Excel Engineering College is presenting

R2020, BME SYLLABUS - 3rd Sem

Credits	Course	Category	Periods/Week			Maximum Marks			Total
			L	T	P	CA	ET	ET	
III SEMESTER									
Theory Courses - I									
2000105	Partial Differential Equations and Linear Algebra	BS	3	3	0	4	40	40	100
2000107	Signals and Systems for Biomechanics	PC	3	2	0	4	40	40	100
2000108	Circuit Theory	ES	3	0	0	3	40	40	100
2000109	Electronic Devices and Circuits	PC	3	0	0	3	40	40	100
2000110	Transducers and Measurements	PC	3	0	0	3	40	40	100
Theory with Practical Courses - I									
2000106	Human Anatomy and Physiology	PC	3	0	2	4	50	50	100
Practical Courses									
2000111	Electronic Devices and Circuits Laboratory	PC	0	0	4	3	50	50	100
2000112	Environmental Sciences	ME	2	0	0	0	100	-	100
			50	4	0	13	400	400	360

Wednesday, June 16, 2021
Department of Engineering Dept., EXCEL ENGINEERING COLLEGE (Autonomous)