

Shri G. S. Institute of Technology & Science, Indore

Department of Biomedical Engineering

Date: 9th Sept, 2021

Minutes of BOS Meeting held on 9th Sept 2021

A Board of Studies (BOS) meeting of Biomedical Engineering department was held on 9th Feb 2021 in the department, to discuss & finalize the addition of Mandatory courses in Scheme of B.E. Biomedical Engineering as per AICTE Model Curriculum. Expert members joined the meeting through online platform. Following members joined the meeting:

1.	Prof. B. R. Rawal	Chairman
2.	Prof. R. B. Pachori, Professor Department of Electrical Engineering, IIT-Indore	Expert Member
3.	Prof. Ashutosh Datar, Professor Electronics Engineering S.A.T.I., Vidisha	Expert Member
5.	Prof. P. P. Bansod	Member
6.	Mrs. Vibha Bhatnagar	Member
7.	Mrs. Gauri Gupta	Member
8.	Mrs. Avni Jain	Member
9.	Mr. Sunny Ganavdiya	Member

The deliberations of the meeting are as under:

Item No.1 – As per AICTE model curriculum mandatory subjects *Constitution of India* is added in III Semester, *Environmental Science* in IV Semester and *Essence of Indian Traditional Knowledge* in VI Semester of B.E Biomedical Engineering. Mandatory subjects introduced are Audit only. → *Traditional*

Item No.2 – Minor changes and restructuring of Syllabus of following PG (Biomedical Signal Processing & Instrumentation) subjects was proposed.

1. Computer Vision & Image Processing
2. Bio-MEMS
3. Neural Networks & Fuzzy Logic

All changes were approved by the experts.

The meeting ended with a vote of thanks to the chair.

Signature of members

1. Prof. B. R. Rawal



SPB
9/9/2021

4/15

Shri G.S. Institute of Technology & Science
Proposed Scheme of Examination (Applicable to students admitted in 2021-22)
Bachelor of Biomedical Engineering

Semester: III

S. No.	Subject Code	Category	Subject Name	Periods /Week			Maximum Marks Allotted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
1	MA-29024	BSC	Mathematics III	4	1	-	70	30	-	-	4	-	4
2	EE-29011	ESC	Network Analysis	4	-	2	70	30	40	60	3	1	4
3	EI-29017	ESC	Basic Electronics	4	-	2	70	30	40	60	3	1	4
4	BM-29007	PCC	Bioelectricity & Transducers	4	-	2	70	30	40	60	3	1	4
5	BM-29003	PCC	Human Anatomy & Physiology	4	-	2	70	30	40	60	3	1	4
6	EE-29498	LC	Electrical workshop	-	-	2	-	-	40	60	-	1	1
7	HU-29481	HSMC	Values, Humanities and Professional Ethics	-	3	-	-	100	-	-	2	-	2
8	XXXXX	MC	Constitution Of India (Audit Only)	2 hrs Working Saturday									
Optional Subject				20	4	10	350	250	200	300	18	5	23
9	BM-XXXXX	OC-I	Physiology for Engineers	2	-	-	70	30	-	-	2	-	2
Grand Total				22	4	10	420	280	200	300	20	5	25

*OC/PEC → Can be replaced by NPTEL/Moocs/Swayam Course in consultation with mentor

Semester: IV

S. No.	Subject Code	Category	Subject Name	Periods /Week			Maximum Marks Allotted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
1	MA-29501	BSC	Mathematics IV	4	1	-	70	30	-	-	4	-	4
2	EC-29509	ESC	Digital Electronics	4	-	2	70	30	40	60	3	1	4
3	BM-29508	PCC	Analog Electronics	4	-	2	70	30	40	60	3	1	4
4	EI-29572	ESC	Fundamentals of Measurement	4	-	2	70	30	40	60	3	1	4
5	EI-29998	LC	Electronic Workshop	-	-	4	-	-	40	60	-	2	2
6	HU-29507	HSMC	Economics for Engineers	4	-	-	70	30	-	-	3	-	3

APB-1
5/3/21

Shri G.S. Institute of Technology & Science
Proposed Scheme of Examination (Applicable to students admitted in 2021-22)
Bachelor of Biomedical Engineering

Semester: V

Semester: V													
S. No.	Subject Code	Category	Subject Name	Periods /Week			Maximum Marks Allotted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							Th.	CW	SW	Pr.			
1	IP-39021	HSMC	Industrial Engineering & Management	4	1	-	70	30	-	-	4	-	4
2	BM-39011	PCC	Signals and Systems	4	1	2	70	30	40	60	4	1	5
3	BM-39013	PCC	Biomedical Instrumentation I	4	1	2	70	30	40	60	4	1	5
4	BM-	PEC	Elective-I	4	-	2	70	30	40	60	3	1	4
5	BM-39481	S/I/I	Seminar/Hospital Training/Internship	-	-	4	-	-	100	-	-	2	2
Total				16	3	10	280	120	220	180	15	5	20
Optional Subject													
6		OC-III	1) Biomaterials for Engineering Applicaions 2) Digital Image Processing	2	-	-	70	30	-	-	2	-	2
Grand Total				18	3	10	350	150	220	180	17	5	22

Elective-I: (1) BM-39254 -Programming Tools & Techniques (2) BM-39251-Embedded Systems

*OC/PEC -> Can be replaced by NPTEL/Moocs/Swayam Course in consultation with mentor

Semester: VI

S. No.	Subject Code	Category	Subject Name	Periods /Week			Maximum Marks allotted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							Th.	CW	SW	Pr.			
1	EE-39508	PCC	Control Systems	4	1	2	70	30	40	60	4	1	5
2	BM-39501	PCC	Biomedical Signal Processing	4	1	2	70	30	40	60	4	1	5
3	BM-39512	PCC	Biomedical Instrumentation II	4	1	2	70	30	40	60	4	1	5
4		PEC	Elective-II	4	-	-	70	30	-	-	3	-	3
5	BM-39952	PROJECT	Minor Project-I	-	-	8	-	-	40	60	-	4	4
6	XXXXX	MC	Essence of Indian Traditional Knowledge (Audit Only)	2 hrs Working Saturday									
			Total	16	3	14	280	120	160	240	15	7	22
Optional Subject													
6		OC-IV	1) Health Reasearch Fundamentals 2) Embedded Systems	2	-	-	70	30	-	-	2	-	2
Grand Total				18	3	14	350	150	160	240	17	7	24

Elective-II : (1) BM-39603-Biomedical Statistical Signal Processing (2) EC-39602 Analog & Digital Communication

*OC/PEC -> Can be replaced by NPTEL/Moocs/Swayam Course in consultation with mentor

18/05/24

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