

Chhattisgarh Swami Vivekanand Technical University, Bhilai
Scheme of Teaching and Examination
M.Tech. (Biomedical Engineering and Bioinformatics)
1st Semester

S. N.	Board of Study	Sub Code	Subject Name	Periods Per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Biomedical Engg.	590111(17)	Biostatistics	3	1	-	100	20	20	140	4
2	Biomedical Engg.	590112(17)	Biomedical signal processing and analysis	3	1	-	100	20	20	140	4
3	Biomedical Engg.	590113(17)	Bioinformatics	3	1	-	100	20	20	140	4
4	Biomedical Engg.	590114(17)	Drug Delivery and Drug Design	3	1	-	100	20	20	140	4
5	Elective -I			3	1	-	100	20	20	140	4
6	Biomedical Engg.	590121(17)	Biomedical signal processing and analysis Lab	-	-	3	75	-	75	150	2
7	Biomedical Engg.	590122(17)	Bioinformatics Lab	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

L-Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination, CT- Class Test, TA- Teacher's Assessment

S. N.	Board of Study	Sub Code	Subject Name
1	Biomedical Engg.	590131(17)	Physiology for Engineering
2	Biomedical Engg.	590132(17)	Biosensors
3	Biomedical Engg.	590133(17)	Biomechanics
4	Biomedical Engg.	590134(17)	Data Mining in Bio informatics
5	Biomedical Engg.	590135(17)	Biometrics

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2nd Semester

S. N.	Board of Study	Sub Code	Subject Name	Periods Per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory /Practical				
							ES E	CT	TA		
1	Biomedical Engg.	590211(17)	Experimental & Quantitative Physiology	3	1	-	100	20	20	140	4
2	Biomedical Engg.	590212(17)	Genetic Engineering	3	1	-	100	20	20	140	4
3	Biomedical Engg.	590213(17)	Medical Image Processing and Analysis	3	1	-	100	20	20	140	4
4	Biomedical Engg..	590214(17)	Medical Instrumentation and Sensors	3	1	-	100	20	20	140	4
5	Biomedical Engg.	Elective -III		3	1	-	100	20	20	140	4
6	Biomedical Engg.	590221(17)	Medical Image Processing and Analysis Lab	-	-	3	75	-	75	150	2
7	Biomedical Engg.	590222(17)	Medical Instrumentation and Sensors Lab	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

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Table –II Elective (III)

S. N.	Board of Study	Subject Code	Subject Name
1	Biomedical Engg.	590231(17)	Molecular Biology
2	Biomedical Engg.	590232(17)	Bio nanotechnology
3	Biomedical Engg.	590233(17)	Electro diagnosis therapy & electrical safety
4	Biomedical Engg.	590234(17)	Biomaterials
5	Biomedical Engg.	590235(17)	Health Informatics

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3rd Semester

S. N.	Board of Study	Sub Code	Subject Name	Periods Per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory /Practical				
							ESE	CT	TA		
1	Biomedical Engg.	590311(17)	Machine Learning for Bioinformatics	3	1	-	100	20	20	140	4
2	Refer Table- 3 Elective-III			3	1	-	100	20	20	140	4
3	Biomedical Engg.	590321(17)	Project Work	-	-	28	100	-	100	200	14
4	Biomedical Engg.	590322(17)	Seminar on Industrial Training and Dissertation	-	-	3	-	-	20	20	2
Total				6	2	31	300	40	160	500	24

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Refer Table- 3 (Elective -III)			
S. N.	Board of Study	Sub Code	Subject Name
1	Biomedical Engg.	590331(17)	Protein Engineering & Design
2	Biomedical Engg.	590332(17)	Virtual Instrumentation in BME
3	Biomedical Engg.	590333(17)	Cell Physiology and Bio Potential
4	Biomedical Engg.	590334(17)	Genomics and Proteomics
5	Biomedical Engg.	590335(17)	Biological sequence Analysis

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4th Semester

S. N.	Board of Study	Sub Code	Subject	Periods Per Week			Scheme of Examination			Total Marks	Credit $L+(T+P)/2$
				L	T	P	Theory /Practical				
							ESE	CT	TA		
1	Bio-Medical Engg.	590421(17)	Major Project + Seminar	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

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