M.Tech. Biomedical Engineering

Department of Biotechnology & Bioengineering

School of Biosciences & Technology

Program Structure

Course Name	Course Category	L	T	P	S	C
Sem-I						
Anatomy & Physiology	Integrated	3	0	1	0	4
Computational Methods for Biomedical Applications	Integrated	3	0	1	0	4
Biomedical Image Processing	Theory	3	0	1	0	4
Biomedical Instrumentation	Theory	3	0	1	0	4
Technical Writing & Scientific Communication	Theory	3	0	0	0	3
Elective-1 BioMEMS & Biosensors Molecular and Cellular Bioengineering Medical Imaging Techniques	Theory	3	0	0	0	3
		Total Credit				**22**
Sem-II						
Advance Biomechanics	Theory	3	0	0	0	3
Biomedical Signal Processing	Integrated	3	0	1	0	4
Research Methodology, Biostatistics & Data Analytics	Integrated	3	0	1	0	4
Bioethics, Biosafety and IPR	Theory	3	0	0	0	3
Biomaterials & Tissue Engineering	Theory	3	0	0	0	3
Elective-2 Advanced Protein Engineering Artificial Organs and Rehabilitation Engineering Machine Learning & AI in Biomedical Engineering	Theory	3	0	0	0	3
		Total Credit				**20**
Sem-III						
MOOCs Course (Domain-specific online course)	Theory	2	0	0	0	02
Research Project & Seminar-1	Project	0	0	12	0	12
		Total Credit				**14**
Sem-IV						
Research Project & Seminar-2	Project	0	0	14	0	14
		Total Credit				**14**