M.Tech (BME), Two Year (Four Semesters)
Scheme to be valid with effect from the admitted batch of 2019 – 2020

I SEMESTER

Code	Name of the Subject	Periods/Week		Max. Marks		Total	Credits
		Theory	Lab	Ext.	Int.		
MTBM-1.1	Bio Medical Signal Processing	3	-	70	30	100	3
MTBM-1.2	Bio-Medical Instrumentation -I	3	-	70	30	100	3
MTBM-1.3	Elective – I Anatomy & Physiology/EMI/EMC / Bio-Mechanics	3	-	70	30	100	3
MTBM-1.4	Elective – II Principles of Electrotherapy/ Electronic Devices and Circuits / Mathematical methods for Engineers	3	-	70	30	100	3
MTBM-1.5	Research Methodology & IPR	3	-	70	30	100	2
MTBM-1.6	Audit Course	3	-	70	30	100	0
MTBM-1.7	Bio-Medical Signal processing LAB	-	3	-	100	100	2
MTBM-1.8	Bio Instrumentation LAB-I	-	3	-	100	100	2
	Total	18	6	420	380	800	18

II SEMESTER

Code	Name of the Subject	Periods/Week		Max. Marks		Total	Credits
		Theory	Lab	Ext.	Int.		
MTBM-2.1	Bio-Medical Instrumentation -II	3	-	70	30	100	3
MTBM-2.2	Principles of Radiology	3	-	70	30	100	3
MTBM-2.3	Elective – III Orthopedics & Rehabilitation / Biological Effects of Radiation/ Bio-MEMS and Bio-Sensors	3	-	70	30	100	3
MTBM-2.4	Elective – IV Medical Image Processing/ Nano Technologies and Applications/ Robotics and Artificial intelligence	3	-	70	30	100	3
MTBM-2.5	Audit Course	3	-	70	30	100	0
MTBM-2.6	Bio-Medical Image Processing LAB		3	-	100	100	2
MTBM-2.7	Bio Instrumentation LAB-II	-	3	-	100	100	2
MTBM-2.8	Mini Project With Seminar	-	3	-	100	100	2
	Total	15	9	350	450	800	18

III SEMESTER

Code	Name of the Subject	Periods/Week		Max. Marks		Total	Credits
		Theory	Lab	Ext.	Int.		
MTBM-3.1	Elective – V Clinical Medicine /Electrocardiography Signal Analysis/ Bio-Materials and Artificial Organs	3	-	70	30	100	3
MTBM-3.2	Open Elective Hospital Management and Supporting System/ Business Analytics/Industrial Safety/Operational Research/Cost Management of Engineering Projects	3	-	70	30	100	3
MTBM-3.3	Dissertation- I / Industrial Project	-	-	-	100	100	10
	Total	6	-	140	160	300	16

IV SEMESTER

Code	Name of the Subject	Periods/Week		Max. Marks		Total	Credits
		Theory	Lab	Ext.	Int.		
MTBM-4.1	Dissertation- II	-	-	70	30	100	16
	Total	-	-	70	30	100	16

Note:

1. **At the end of 3rd semester project review is conducted by HOD with the committee consisting of the HOD, Chair Person of BOS and the Guide. In the Affiliated Colleges, Project (Preliminary) will be evaluated by concerned HOD and the thesis Guide of their respective colleges.**
2. **At the end of the 4th semester there will be a final viva voce for the project work conducted by the HOD with the committee consisting of HOD, Chair Person of BOS, the Guide and an External examiner nominated by the university.**

Audit Course 1 & 2

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.