

SEMESTER I

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics - I	Basic Science	2BS1101	4
Communication Skills	Humanity and Social Science	2HS1101	3
Physics	Basic Science	2BS1103	3
Engineering Graphics	Engineering Science	2ES1101	4
Workshop Practice	Engineering Science	2ES1102	2
Biology for Engineers	Professional Core	2BM1101	4
Audit Course	Audit	2AC*	0

SEMESTER II

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics - II	Basic Science	2BS1102	4
Basic Electrical Engineering	Engineering Science	2ES1103	4
Engineering Mechanics	Engineering Science	2ES1107	4
Programming for Problem Solving	Engineering Science	2ES1104	4
Audit Course-II	Audit	2AC*	0
Human Anatomy and Physiology	Professional Core	2BM2101	5

SEMESTER**III**

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics for Biomedical Engineering	Basic Science	2BS3104	4
Basic Electronics	Engineering Science	2BM3101	4
Biomedical Transducers and Actuators	Professional Core	2BM3102	4
Python Programming	Professional Core	2BM3103	4
Electronics Measurement & Instrumentation	Professional Core	2BM3104	4
Simulation Laboratory	Professional Core	2BM3105	2
Audit Course	Audit	2AC*	0

**SEMESTER
IV**

Subject Name	Subject Type	Subject Code	Subject Credit
Analog Integrated Electronics	Professional Core	2BM4101	4
Control System Engineering	Professional Core	2BM4102	5
Digital Electronics	Professional Core	2BM4103	4
Bio-Potential & Recorders	Professional Core	2BM4104	4
Biomaterials & Implants	Professional Core	2BM4105	3
Internet of Things	Professional Core	2BM4106	1
Audit Course	Audit	2AC*	0

**SEMESTER
V**

Subject Name	Subject Type	Subject Code	Subject Credit
Physiological Control Systems & Modeling	Professional Core	2BM5101	4
Neural Networks and Fuzzy Logic	Professional Core	2BM5102	4
Microprocessor Architecture & Interfacing	Professional Core	2BM5103	4
Biological Digital Signal Processing	Professional Core	2BM5104	4
Cardiovascular System and Dynamics	Professional Core	2BM5105	3
Analytical Instrumentation	Professional Core	2BM5106	4
Aptitude Skill Building I	Humanity and Social Science	2HS5101	1

**SEMESTER
VI**

Subject Name	Subject Type	Subject Code	Subject Credit
Ultrasonic Imaging and Radiology	Professional Core	2BM6101	4
Bio-Potential & Recorders	Professional Core	2BM6102	4
Diagnostic Techniques & Instrumentation	Professional Core	2BM6103	4
Microcontroller Applications	Professional Core	2BM6104	4
Bioinformatics	Professional Core	2BM6105	4
Hospital Management & Information System	Professional Core	2BM6106	3
APTITUDE SKILL BUILDING II	Humanity and Social Science	2HS6101	1

**SEMESTER
VII**

Subject Name	Subject Type	Subject Code	Subject Credit
Advanced Medical Imaging Techniques	Professional Core	2BM7101	4
Biomechanics & Design Ergonomics	Professional Core	2BM7102	4
Therapeutic Techniques & Instrumentation	Professional Core	2BM7103	4
Tissue Engineering	Professional Core	2BM7104	4
Embedded System Design	Professional Core	2BM7105	4
Medical Device Safety & Standards	Professional Elective	2BM71PE02	3
Clinical Engineering & Patient Safety	Professional Elective	2BM71PE01	3
Project I	Professional Core	2BM7106	1

**SEMESTER
VIII**

Subject Name	Subject Type	Subject Code	Subject Credit
Biological Digital Image Processing	Professional Core	2BM8101	5
Prosthetics & Orthotics Engineering	Professional Core	2BM8102	5
Transportation Phenomena in Living Systems	Professional Core	2BM8103	3
Project II	Professional Core	2BM8104	3
Lasers and Optical Fibers in Medicine	Professional Elective	2BM81PE01	5
Biomedical Microsystems	Professional Elective	2BM81PE02	5

