

Grams: "TECHNOLOGY"
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Andhra Pradesh Act No.30 of 2008)
Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

B. TECH. BIOMEDICAL ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
	English	2	-	4
	Mathematics -I	3	1	6
	Mathematical Methods	3	-	6
	Engineering Physics	3	-	6
	Engineering Chemistry	3	-	6
	Computer Programming	3	-	6
	Engineering Drawing	2	3	6
	Computer Programming Lab.	-	3	4
	Engineering Physics / Engineering Chemistry Lab.	-	3	4
	English Language Communication Skills Lab.	-	3	4
	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Applied Biochemistry	4	-	4
	Electronic Devices & Circuits	4	-	4
	Fundamentals of Electrical Engineering	4	-	4
	Signals and Systems	4	-	4
	Anatomy and Physiology	4	-	4
	Bio Medical Instrumentation	4	-	4
	Electronic Devices and Circuits Lab	0	3	2
	Medical Sciences Lab	0	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Environmental Studies	4	-	4
	Switching Theory and Logic Design	4	-	4
	Pulse and Digital Circuits	4	-	4
	Clinical Sciences - I	4	-	3
	Bio Transducers and Applications	4	-	4
	Hospital System Management	4	-	4
	Transducers Lab	0	3	2
	Basic Simulation Lab	0	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Managerial Economics and Financial Analysis	4	-	4
	Principles of Communications	4	-	4
	Digital Signal Processing	4	-	4
	Linear and Digital IC Applications	4	-	4
	Clinical Sciences – II	4	-	4
	Bio Medical Equipment - I	4	-	4
	Advanced Communication Skills Lab	0	3	2
	Pulse Circuits and IC Applications Lab	0	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Open Elective Disaster Management Human Values and Professional Ethics Intellectual Property Rights	4	-	4
	Biological Control Systems	4	-	4
	Microprocessors and Microcontrollers	4	-	4
	Medical Image Acquisition Techniques	4	-	4
	Biomedical Equipment – II	4	-	4
	Bio Fluids and Mechanics	4	-	4
	Biomedical Equipment Lab	0	3	2
	Microprocessors and Microcontrollers Lab	0	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Medical Image Processing	4	-	4
	Rehabilitation Engineering	4	-	4
	Computer Networks	4	-	4
	Biomedical Signal Processing	4	-	4
	Elective – I Lasers & Fiber Optic Instrumentation Artificial Neural Networks Nanotechnology	4	-	4
	Elective – II Embedded & Real Time Systems VLSI Design DSP Processors & Architectures	4	-	4
	Biomedical Signal Processing Lab	0	3	2
	Medical Imaging Lab	0	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective – III Reliability Engineering Transportation Phenomena in living systems Telemedicine	4	-	4
	Elective – IV Robotics and Automation Medical Informatics Biometric Systems	4	-	4
	Biomaterials	4	-	4
	Industry Oriented Mini Project	0	-	2
	Seminar	0	6	2
	Major Project	0	15	10
	Comprehensive Viva	0	0	2
	Total	12	21	28

Note : All End Examinations (Theory and Practical) are of three hours duration.
T - Tutorial L – Theory P – Practical C – Credits