



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

B. TECH. ELECTRONICS AND COMMUNICATION 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
	Mathematics - III	4	-	4
	Probability Theory and Stochastic Processes	4	-	4
	Switching Theory and Logic Design	4	-	4
	Electrical Circuits	4	-	4
	Electronic Devices and Circuits	4	-	4
	Signals and Systems	4	-	4
	Electronic Devices and Circuits Lab.	-	3	2
	Basic Simulation Lab.	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Principles of Electrical Engineering	4	-	4
	Electronic Circuit Analysis	4	-	4
	Pulse and Digital Circuits	4	-	4
	Environmental Studies	4	--	4
	Electromagnetic Theory and Transmission Lines	4	-	4
	Digital Design using Verilog HDL	4	-	4
	Electrical Technology Lab.	-	3	2
	Electronic Circuits and Pulse Circuits Lab.	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Control Systems Engineering	4	-	4
	Computer Organization and Operating Systems	4	-	4
	Antennas and Wave Propagation	4	-	4
	Electronic Measurements and Instrumentation	4	-	4
	Analog Communications	4	-	4
	Linear and Digital IC Applications	4	-	4
	Analog Communications Lab.	-	3	2
	IC Applications and HDL Simulation Lab.	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Managerial Economics and Financial Analysis	4	-	4
	Open Elective: Human Values and Professional Ethics Disaster Management Intellectual Property Rights	4	-	4
	Digital Communications	4	-	4
	VLSI Design	4	-	4
	Microprocessors and Microcontrollers	4	-	4
	Digital Signal Processing	4	-	4
	Microprocessors and Microcontrollers Lab.	-	3	2
	Digital Signal Processing Lab.	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Management Science	4	-	4
	Microwave Engineering	4	-	4
	Computer Networks	4	-	4
	Cellular and Mobile Communications	4	-	4
	Elective -I: Digital Image Processing Multimedia and Signal Coding Object Oriented Programming through Java	4	-	4
	Elective -II: Television Engineering Optical Communications Embedded Systems Design	4	-	4
	Advanced Communication Skills Lab,	-	3	2
	Microwave Engineering and Digital Communications Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective -III: Satellite Communications Biomedical Instrumentation Artificial Neural Networks	4	-	4
	Elective -IV: Telecommunication Switching Systems and Networks Radar Systems Network Security	4	-	4
	Elective -V: Wireless Communications and Networks Digital Signal Processors and Architectures RF Circuit Design	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Major Project	-	15	10
	Comprehensive Viva	-	-	2
	Total	12	21	28

Note: All End Examinations (Theory and Practical) are of three hours duration.

T-Tutorial L – Theory P – Practical/Drawing C – Credits