JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. TECH. ELECTRICAL AND ELECTRONICS ENGINEERING (2009-10)

I YEAR

COURSE STRUCTURE

Code	Subject	L	T/P/D	С
	English	2	-	4
	Mathematics - I	3	1	6
	Mathematical Methods	3	1	6
	Engineering Physics	2	1	4
	Engineering Chemistry	2	-	4
	Computer Programming & Data Structures	3	-	6
	Engineering Drawing	2	3	4
	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	17	18	50

II YEAR I SEMESTER

COURSE STRUCTURE

Code	Subject	L	T/P/D	С
	Mathematics – III	3	1	3
	Fluid Mechanics and Hydraulic Machinery	3	1	3
	Electronic Devices & Circuits	4	-	4
	Electrical Circuits	4	1	4
	Electro magnetic fields	3	1	3
	Electrical Machines -I	4	1	4
	Fluid Mechanics and Hydraulic Machinery Lab	-	3	2
	Electronic Devices & Circuits Lab	-	3	2
	Total	21	11	25

II YEAR II SEMESTER

COURSE STRUCTURE

Code	Subject	L	T/P/D	С
	Managerial Economics & Financial Analysis	4	-	4
	Power Systems – I	3	1	3
	Electronic Circuits	3	1	3
	Switching Theory and Logic Design	4	1	4
	Network Theory	3	1	3
	Electrical Machines – II	4	1	4
	Electrical Machines Lab – I	-	3	2
	Electric Circuits and Simulation Lab.	-	3	2
	Total	21	11	25

III YEAR I SEMESTER

COURSE STRUCTURE

Code	Subject	L	T/P/D	С
	IC Applications	3	1	3
	Management Science	3	1	3
	Power Systems – II	4	-	4
	Control Systems	3	1	3
	Power Electronics	4	1	4
	Electrical Machines – III	4	1	4
	Electrical Machines Lab – II	-	3	2
	Control Systems and Simulation Lab.	-	3	2
	Total	21	11	25

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B. TECH. ELECTRICAL AND ELECTRONICS ENGINEERING

III YE	III YEAR II SEMESTER		COURSE STRUCTURE		
Code	Subject Electrical Measurements Power Semiconductor Drives Computer Methods in Power Systems Microprocessors and Microcontrollers Open Elective Renewable Energy Sources Intellectual Property Rights	L 3 4 4 4 3	T/P/D 1 1 - 1 1	C 3 4 4 3	
	Nanotechnology Environmental Studies Advanced English Communication Skills Lab. Power Electronics and Simulation Lab. Total	3 - - 21	1 3 3 11	3 2 2 25	
IV YE	AR I SEMESTER	COURSE STRUCTURE			
Code	Subject Switchgear and Protection Utilization of Electrical Energy Instrumentation Power System operation and Control Elective – I High Voltage Engineering VLSI Design Digital Control Systems	L 3 3 4 4	T/P/D 1 1 1 1 1	C 3 3 4 4	
	Elective – II Optimization Techniques Electrical Distribution Systems Principles of Digital Signal Processing Microprocessors and Microcontrollers Lab Electrical Measurements Lab Total	- - 21	3 3 11	2 2 2 25	
IV YEAR II	/ YEAR II SEMESTER		COURSE STRUCTURE		
Code	Subject HVDC Transmission Elective – III Neural Networks and Fuzzy Logic Linear Systems Analysis Reliability Engineering and Application to Pow Systems	L 3 3	T/P/D - 1	C 3 3	
	Elective – IV Advanced Control Systems EHV AC Transmission Computer System Organization	3	1	3	
	Industry Oriented Mini Project Seminar Major Project Comprehensive Viva Total	- - - - 9	- 6 15 - 23	2 2 10 2 25	