

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

**COURSE STRUCTURE OF
ELECTRICAL & ELECTRONICS ENGINEERING**

I YEAR B.Tech. EEE

2005 -2006

SUBJECT CODE	SUBJECT	T	P	C
	English	2 + 1*	-	4
	Mathematics – I	3 + 1*	-	6
	Applied Physics	2 + 1*	-	4
	Mathematical Methods	2 + 1*	-	4
	C Programming and Data Structures	3 + 1*	-	6
	Electrical Circuits	3 + 1*	-	6
	Electronic Devices & Circuits	3 + 1*	-	6
	Engineering Drawing and Practice	-	3	4
	Computer Programming Lab	-	3	4
	Electronic Devices and Circuits Lab	-	3	4
	Engineering Workshop Practice / IT Workshop	-	3	4
	English Language Communication Lab	-	3	4
	Total	25	15	56

*** Tutorial**

T: Theory periods per week
 P: Practical /Drawing Periods per week
 C: Total Credits for the subject

II YEAR B.Tech. EEE – I Semester

2005 -2006

SUBJECT CODE	SUBJECT	T	P	C
	Mathematics-III	4	-	4
	Fluid Mechanics & Hydraulic Machinery	4	-	4
	Pulse and Digital Circuits	4	-	4
	Switching Theory and Logic Design	4	-	4
	Electromagnetic Fields	4	-	4
	Electrical Machines – I	4	-	4
	Fluid Mechanics & Hydraulic Machinery Lab	-	3	2
	Electrical Circuits Lab	-	3	2
	Total	24	6	28

II YEAR B.Tech. EEE – II Semester**2005 -2006**

SUBJECT CODE	SUBJECT	T	P	C
	Managerial Economics & Financial Analysis	4	-	4
	Environmental Studies	4	-	4
	Linear and Digital IC Applications	4	-	4
	Power Systems – I	4	-	4
	Electrical Machines – II	4	-	4
	Control Systems	4	-	4
	I.C and Pulse & Digital Circuits Lab	-	3	2
	Electrical Machines Lab – I	-	3	2
	Total	24	6	28

III YEAR B.Tech. EEE – I Semester**2005 -2006**

SUBJECT CODE	SUBJECT	T	P	C
	Computer Organization	4	-	4
	Electrical Measurements	4	-	4
	Power Systems – II	4	-	4
	Power Electronics	4	-	4
	Electrical Machines – III	4	-	4
	Linear and Discrete Systems Analysis	4	-	4
	Electrical Machines Lab – II	-	3	2
	Control Systems Lab	-	3	2
	Total	24	6	28

III YEAR B.Tech. EEE – II Semester**2005 -2006**

SUBJECT CODE	SUBJECT	T	P	C
	Digital Signal Processing	4	-	4
	Microprocessors and Microcontrollers	4	-	4
	Management Science	4	-	4
	Instrumentation	4	-	4
	Switchgear and Protection	4	-	4
	High Voltage Engineering	4	-	4
	Electrical Measurements Lab	-	3	2
	Power Electronics Lab	-	3	2
	Total	24	6	28

SUBJECT CODE	SUBJECT	T	P	C
	Neural Networks & Fuzzy Logic	4	-	4
	Power Semiconductor Drives	4	-	4
	Power System Analysis	4	-	4
	Power System Operation and Control	4	-	4
	Elective – I	4	-	4
	Elective – II	4	-	4
	Microprocessors & Microcontrollers Lab	-	3	2
	Simulation of Electrical Systems Lab	-	3	2
	Total	24	6	28

IV YEAR B.Tech. EEE – II Semester

SUBJECT CODE	SUBJECT	T	P	C
	Utilization of Electrical Energy	4	-	4
	Elective – III	4	-	4
	Elective – IV	4	-	4
	Industrial Oriented Mini Project	-	-	2
	Seminar	-	-	2
	Project	-	-	12
	Total	12	-	28

LIST OF ELECTIVES

ELECTIVE – I		ELECTIVE - II	
Subject Code	Subject	Subject Code	Subject
	Advanced Control Systems		Reliability Engineering and Application to power systems
	Non-Conventional Sources of Energy		Optimization Techniques
	VLSI Design		Electrical Distribution Systems

ELECTIVE – III		ELECTIVE – IV	
Subject Code	Subject	Subject Code	Subject
	Digital Control Systems		Software Engineering
	H.V.D.C. Transmission		Data Base Management Systems
	Embedded Systems		OOPS through JAVA