

B. Tech Electrical & Electronics Engineering Curriculum

Course Category	Course No.	Course Title	Contact Hours			Credit	Prerequisites
			L	T	P		
Science Core Courses -28 Credits	MA 101	Mathematics-I	3	1	0	4	None
	MA 102	Mathematics-II	3	1	0	4	None
	MA 201	Mathematics-III	3	0	0	3	None
	MA 203	Scientific computing	3	0	0	3	CS101
	MA 210	Mathematics Laboratory	0	0	4	2	CS101, MA101, MA102
	PH 101	Engineering Physics	3	1	2	5	None
	CH 101	Engineering Chemistry	3	1	2	5	None
	ES 101	Environmental Science	2	0	0	2	None
Science Elective Courses -3 Credits	BT 201	Elements of Modern Biology	3	0	0	3	None
	PH 201	Physics of Materials	3	0	0	3	None
	CH 102	Introduction to Material Science	3	0	0	3	None
	MA 211	Graph Theory	3	0	0	3	None
		Any other subject offered by Sc. departments and recommended by the Course Adviser.					
Engineering Sc. Core Courses - 20 Credits	CE 101	Engineering Drawing	1	0	4	3	None
	EE 101	Basic Electrical Engineering	3	0	2	4	None
	EC 101	Basic Electronics	3	0	2	4	EE 101
	ME 101	Engineering Mechanics	3	0	0	3	None
	ME 102	Engineering Thermodynamics	2	0	0	2	None
	CS 101	Computer Programming	2	0	2	3	None
	ME 103	Workshop Practice-I	0	0	4	2	None
Discipline Core Courses -53 Credits	EE 201	Electronic Devices and Circuits	3	1	2	5	EC 101
	EE 202	Digital Logic Design	3	1	2	5	EC 101
	EE 203	Network Analysis	3	1	2	5	EE 101
	EE 204	Measurement & Instrumentation	3	1	2	5	EE 201
	EE 205	Transmission & Distribution	3	1	2	5	EE 203
	EE 206	Electrical Machines-I	3	1	2	5	EE 101
	EE 210	Electrical Technology	3	0	2	4	EE 101
	EE 301	Microprocessors & Interfacing	3	0	2	4	EE 202, CS 101
	EE 302	Electrical Machines-II	3	1	2	5	EE 206
	EE 303	Control System	3	0	2	4	EE 203
	EE 304	Power Electronics	3	0	2	4	EE 201
	EE 305	Electromagnetic Theory	3	0	0	3	EE 101
EE 306	Protection & Switchgear	3	0	2	4	EE 208	
Discipline Electives - 20 Credits	EE 311	Power System Analysis	3	0	2	4	EE 203
	EE 312	Embedded Systems	3	0	2	4	EE 301
	EE 313	Analog Electronics	3	0	2	4	EE 201
	EE 321	Signals & Systems	3	0	0	3	
	EE 411	Advanced Control System	3	0	0	3	EE 303
	EE 412	HVDC & FACTs	3	0	0	3	EE 206
	EE 413	High Voltage Engineering	3	0	2	4	EE 206
	EE 414	Image Processing	3	0	0	3	EC 203
	EE 415	Electric Drives & Control	3	0	2	4	EE 205
	EE 416	Deregulated Power Systems	3	0	0	3	EE 311
	EE 422	Power System Operation & Control	3	0	2	4	EE 311
		Plus any other course of level 300 and above offered by the department and recommended by it.					

Open Elective Courses - 20 Credits	Any course of appropriate level offered in the Institute and recommended by the Course Adviser						
Project Works	EE 401	Project-I	0	0	8	4	100 or more credits earned
	EE 402	Project-II	0	0	16	8	120 or more credits earned
HSS Core Courses - 11 Credits	HS 101	English Language Skills	2	0	2	3	None
	HS 301	Foundations of Management	3	0	0	3	None
	HS 302	Accounting and Financial Methods	3	0	0	3	HS 301
	HS 401	Professional Ethics	2	0	0	2	HS 301
HSSM Elective Courses - 3 Credits	HS 402	Introduction to Economics	3	0	0	3	None
	HS 403	Introduction to Sociology	3	0	0	3	None
	HS 404	Introduction to Psychology	3	0	0	3	None
	HS 405	Introduction to Behavioral Sc.	3	0	0	3	None