Suggestive Study path for B. Tech. (Electrical)

	First Semester	Second Semester	Third Semester	Fourth Semester		Fifth Semester	Sixth Semester		Seventh Semester	Eighth Semester
Humanity and Social Sciences including Environmental Studies (14) (5 to 10%, 9 - 18)	HS1001 Communication Skills (4+0+0)=4 HS 1002: Lab-Communication Skills (0+0+1)=1 (Total = 5)		HS 2001 Environmental Studies (4+0+0) = 4 (Total = 4)	Select any one subject from the list of HSS displayed on the institute Website (3+0+0)=3 (Total = 3)	INTERNSHIP/INDUSTRIAL TRAINING	Select any one subject from the list of HSS displayed on the institute Website (2+0+0)=2 (Total = 2)		INTERNSHIP/INDUSTRIAL TRAINING		
Basic Sciences (23) (15 to 20%, 27 -36)	MA 1001 EM-I (3+1+0)=4 BS1001 Engg. Physics (3+0+0)=3 BS 1005 Biology (3+0+0)=3 BS 1002 Lab-Engg Physics (0+0+1) =1 (Total=11)	MA 1002 EM II (3+1+0)=4 BS 1003 Engg Chemistry (3+0+0)=3 BS 1004 Lab-Engg Chemistry (0+0+1)=1 (Total=8)	MA 2001 Engineering Mathematics-III (4+0+0)=4 (Total = 4)							
Engineering Sciences (25) (15 to 20%, 27 -36)	ME 1001 BEE (4+0+0)=4 ME 1002 Lab- BEE (0+0+1)=1 ME 1005 Lab-Workshop-I (0+0+1)=1 (Total=6)	AM 1001 Engg Mechanics (3+0+1)=3 AM1002 Lab Engineering Mechanics (0+0+1)=1 ME 1003 Engg Graphics (3+0+0)=3 ME 1004 Lab-	EE2004 Computer Programming (2+0+0)=2 EE2007 Lab -Computer Programming (0+0+1)=1 (Total = 3)	Select any one course from list ES courses (2+0+0)=2						

		Engg Graphics (0+0+1)=1 #BCE BEE BECEBCOM & IT BEEE (4+0+0)=4 # Lab-BCE /EE BECEBCOM & IT BEEE (0+0+1)=1 ME 1006 Lab Workshop II (0+0+1)=1 (Total=14)								
Professional Core (82) **(30 to 40%, 53 - 70)**			EE2001: Electromagnetic Field (3+0+0)=3 EE2002: Network Analysis (3+0+0)= 3 EE2005: Lab-Network Analysis (0+0+1)= 1 EE2003: Analog Electronics (3+0+0)= 3 EE2006: Lab-Analog Electronics (0+0+1)= 1 (Total = 11)	EE2008: Electrical Machines –I (3+1+0)=4 EE2012: Lab-Electrical Machines –I (0+0+1)=1 EE2009: Electrical Measurement and Instrumentation (3+0+0)=3 EE2013: Lab-Electrical Measurement and Instrumentation (0+0+1)=1 EE2010: Power System-I (3+1+0)=4 EE2011: Linear Integrated Circuits & Appl. (3+0+0)=3		EE3001: Renewable Energy Technology (3+0+0)=3 EE3002 Electrical Machines-II (3+1+0)=4 EE3006: Lab-Electrical Machines-II (0+0+1)=1 EE3003: Digital Electronics (3+0+0)=3 EE3007: Lab-Digital Electronics (0+0+1)=1 EE3004: Power System II (3+0+0)=3 EE3008: Lab-Power System II (0+0+1)=1 EE3005:	EE3010: Switchgear and Protection (3+0+0)=3 EE3015: Lab-Switchgear and Protection (0+0+1)=1 EE3011: Microprocessor and Microcontroller (3+0+0)=3 EE3016: Lab-Microprocessor and Microcontroller (0+0+1)=1 EE3012: Power Electronics (3+0+0)=3 EE3017: Lab-Power Electronics (0+0+1)=1 EE3013:		EE4001: Electrical Drives (3+0+0)=3 EE4002: Lab-Electrical Drives (0+0+1)=1 EE4003 Lab Innovation/Mini project/ Seminar (0+0+1)=1 EE4004 Project Phase I (0+0+2)=2 (Total = 8) EE4005 Internship/ Industrial Training Seminar (0+0+1)=1	EE4007 Project Phase II(06) EE4008 Electrical Equipment Specification lab (0+0+1)=1 (Total =07)

				EE2014: Linear Integrated Circuits & Appl. (0+0+1)=1 (Total = 17)		Control Systems I (3+0+0)=3 EE3009: Control Systems I (0+0+1)=1 (Total = 20)	Advanced Control Systems (3+1+0)=4 EE3014: Advanced Power Systems (3+0+0)=3 (Total = 19)			
Professional Electives (20) **(10 to 15%, 18 -27)**									EE4009 to EE4039 and the subjects (from other dept.) mentioned in the list of electives. Professional Elective- I, II (4+0+0)=4 Any two (Total=8)	EE4009 to EE4039 and the subjects (from other dept.) mentioned in the list of electives. Professional Elective- III, IV (4+0+0)=4 Any two (Total=08) EE4006 Professional Elective-V (4+0+0) = 4 (Total=12)
Open Elective (12) **(5 to 10%, 9-18)**							Open Elective-I (3+0+0=3) (Total =3)		Open Elective-II (3+0+0)=3 Open Elective-III (3+0+0)=3 (Total=6)	Open Elective-IV (3+0+0)=3 (Total =3)
Mandatory Courses (No Credits)				Select any one course from list mandatory courses		Select any one course from list mandatory courses				
Total Credits (176)	22	22	22	22		22	22		22	22