

Scheme for I to VIII

B.TECH ELECTRONICS & COMMUNICATION ENGINEERING

(2006 Admission onwards)

Semester I & II

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 101	Engineering Mathematics I	3		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 102	Engineering Physics	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 103	Engineering Chemistry	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 104	Engineering Mechanics	3	1	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 105	Engineering Graphics	1	3	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 106	Basic Civil & Mechanical Engineering	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 107	Basic Electrical & Electronics Engineering	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 108	Computer Programming	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 109	Technical Communication & Social Sciences	3		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 110	Computer Programming Laboratory		3	100		100
CE/CS/EB/EC/EE/ EI/IT/ME/SE 111	Electrical & Mechanical Workshops		3	100		100
	Total	20	10	650	900	1550

Semester III

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
EB/EC/EI/IT/ ME 302	Electrical Technology	4		50	100	150
EC/EI 303	Network Theory	4		50	100	150
EB/EC/EI 304	Digital Electronics	4		50	100	150
EC/EI 305	Solid State Electronics	4		50	100	150
EC/EI 306	Electronic Circuits I	4		50	100	150
EB/EC/EI 307	Basic Electronics Laboratory	-	3	100		100
EB/EC/EI 308	Electrical Machines Laboratory	-	3	100		100
	Total	24	6	500	600	1100

Semester IV

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/IT/ME/SE 401	Engineering Mathematics III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors.	4		50	100	150
EC/EI 403	Electronic Circuits II	4		50	100	150
EC/EI 404	Signals and Systems	4		50	100	150
EC/EE 405	Analog Communication	4		50	100	150
EB/EC/EE/EI 406	Industrial and Power Electronics	4		50	100	150
CS/EB/EC/EE/EI 407	Digital Electronics Laboratory	-	3	100		100
EC 408	Electronic Circuits Laboratory I	-	3	100		100
	Total	24	6	500	600	1100

Semester V

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/IT/ME/SE 501	Engineering Mathematics IV	4		50	100	150
EC 502	Electromagnetic Theory	4		50	100	150
EC/EI 503	Digital System Design	4		50	100	150
EC/EI 504	Advanced Microprocessors	4		50	100	150
EC/EI 505	Micro Electronics & Integrated Circuits	4		50	100	150
EC/EI 506	Digital Signal Processing	4		50	100	150
CS/EB/EC/EI 507	Microprocessor Laboratory	-	3	100		100
EC 508	Electronic Circuits Laboratory II	-	3	100		100
	Total	24	6	500	600	1100

Semester VI

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
EC 601	Digital Communication	4		50	100	150
EC 602	Microwave Techniques & Devices	4		50	100	150
EC/EI 603	VLSI Design	4		50	100	150
EC 604	Electronic Measurements and Instrumentation	4		50	100	150
CS/EB/EC/EI 605	Control Systems Engineering	4		50	100	150
EC/EI 606	Embedded Systems	4		50	100	150
EC 607	Communication Laboratory I	-	3	100		100
EC 608	Mini Project	-	3	100		100
	Total	24	6	500	600	1100

Semester VII

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CS/EB/EC/EE/EI/IT 701	Industrial Organization & Management	4		50	100	150
EC 702	Radio Communication	4		50	100	150
EC/EI 703	Computer Communication & Networks	4		50	100	150
EC 704	Electronic Product Design	4		50	100	150
EC 705	Elective I	4		50	100	150
EC 706	Signal Processing Laboratory	-	3	100		100
EC 707	Communication Laboratory II	-	3	100		100
EC 708	Seminar	-	2	50		50
EC 709	Project Design	-	2	50		50
	Total	20	10	550	500	1050

ELECTIVE I:

- EC/EI 705A: **Intelligent Systems**
EC 705B: **Fundamentals of RF Design**
EC 705C: **Hardware modeling**
EB/EC/EI 705D: **Mechatronics**

Semester VIII

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
EC 801	Audio & Video Engineering	4		50	100	150
EC 802	Communication Systems	4		50	100	150
EC 803	Opto Electronics & Communication	4		50	100	150
EC 804	Elective II	4		50	100	150
EC 805	Project Work		14	300		300
EC 806	Viva-voce				100	100
	Total	16	14	500	500	1000
Grand Total					8000	

ELECTIVE II:

- CS/EC/EE/EI 804 A: **Digital Image Processing**
CS/EB/EC/IT 804 B: **Bioinformatics**
EC/EI 804 C: **ASIC Design**
EC 804 D: **Mixed Signal System Design**