B.TECH DEGREE IN ELECTRONICS & INSTRUMENTATION ENGINEERING
SCHEME OF EXAMINATIONS

Semester III

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
CE/CS/EB/EC/EE/EI/IT/ ME/MRE/SE 301	Engineering Mathematics III	5		50	100	150
CS/EB/EC/EI/IT/ME/MRE 302	Electrical Technology	4		50	100	150
EE /EI 303	Network Analysis	5		50	100	150
CS/EB/EC/EE/EI 304	Digital Electronics	5		50	100	150
EB/EC/EE/EI 305	Solid State Electronics & Circuits	5		50	100	150
EB/EC/EI 306	Basic Electronics Lab	-	3	75	75	150
CS/EB/EC/EI 307	Electrical Lab	-	3	75	75	150
	Total	24	6	400	650	1050

Semester IV

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
CE(A)/CS/EB/EC/EE/ EI/IT/ME/SE 401	Engineering Mathematics IV	5		50	100	150
EB/EC/EE/EI 402	Electronic Circuits	5		50	100	150
EI 403	Microelectronics & Integrated Circuits	4		50	100	150
EE /EI 404	Computer Architecture & Organization	5		50	100	150
EI 405	Instrumentation Engineering –I	5		50	100	150
CS/EB/EC/EE/EI 406	Digital Electronics Lab	-	3	75	75	150
EB/EC/EI 407	Electronic Circuits Lab 1	-	3	75	75	150
Total		24	6	400	650	1050

Semester V

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
EC/EE/EI 501	Electromagnetic Theory	5		50	100	150
EE/EI/ ME/SE 502	Industrial Organisation and Management	5		50	100	150
EE/EI 503	Microprocessor System Design	5		50	100	150
EI 504	Instrumentation Engineering -II	5		50	100	150
EB/EC/EE/EI 505	Industrial & Power Electronics	4		50	100	150
CS/EB/EC /EE / EI 506	Microprocessor Lab	-	3	75	75	150
EI 507	Instrumentation Lab -I	-	3	75	75	150
Total		24	6	400	650	1050

Semester VI

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
CS / EE/ EI 601	Digital Signal Processing	5		50	100	150
EI 602	Process Instrumentation	5		50	100	150
EE/EI 603	Communication Engineering	4		50	100	150
EI 604	Industrial Instrumentation	5		50	100	150
CS /EB/EC/EI 605	Control Systems Engineering	5		50	100	150
EI 606	Instrumentation Lab -II	-	3	75	75	150
EI 607	Minor Project	-	3	150		150
Total		24	6	400	650	1050

Semester VII

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
EB/EE/EI 701	Computer Communication and Networks	5		50	100	150
EI 702	Digital System Design	4		50	100	150
EI 703	Automatic Process Control	5		50	100	150
EI 704/ EE705 D	Digital Communication	4		50	100	150
EI 705	Elective I	4		50	100	150
EI 706	Digital Signal Processing Lab	-	3	75	75	150
EI 707	Process Control Lab	-	3	75	75	150
EI 708	Seminar	-	2	50		50
Total		22	8	450	650	1100

ELECTIVE I

A. **Fuzzy Logic Control (EI)**
B. **Embedded Systems (EB/EC/EI)**
C. **Artificial Neural Networks (CS/EB/EC/EI/IT)**
D. **Electronic Product Design (Same as EC 704)**

Semester VIII

Course No	Subject	No.of Hrs per week		Internal mark	University mark	Total marks
		L	T/D/P			
EI 801 / EC/EE/804D	Biomedical Instrumentation	5		50	100	150
EI 802	VLSI System Design	5		50	100	150
EI 803	Optical Instrumentation	5		50	100	150
EI 804	Elective II	5		50	100	150
EI 805	Project		10	300		300
EI 806	Viva-voce				100	
Total		20	10	500	500	1000

ELECTIVE II

A. **Digital Image Processing (EB/EC/EI)**
B. **ASIC Design (EC/EI)**
C. **Mechatronics (EB/EC/EI)**
D. **Space Instrumentation (EI)**
E. **Audio & Video Engineering (Same as EC 801)**