Electronics and Communication Engineering

SEMESTER - I (Common for all B.Tech Courses)

S.No	C. Code	Course	L	T	P	C
1	MA108T	Calculus	3	1.5	0	9
2	EE101T	Introduction to Electrical Systems and Electronics	3	0	0	6
3	CS101C	Computer Programming	3	0	2	8
4	PH101T	Quantum Physics and Applications	2	1	0	6
5	HS101T	Design Thinking and Creativity	1	0	0	PP/NP
6	CC	NSO/NSS/NCC/NCA	0	0	2	2
7	EE101O	Formal Communications	1	0	0	2
	First Semester Total Credits					33

Semester - II

S. No	Course Code	Course Name	L	T	P	C
1	MA109T	Linear Algebra and Differential Equations	3	1.5	0	9
2	EE103T	Digital Systems	2	1	0	6
3	EE101L	Digital Circuits Lab	0	0	3	3
4	EE104T	Network Theory	2	1	0	6
5	EE105T	Electronic Devices (2nd Half)	3	0	0	3
6	ME101C	Engineeing Graphics Laboratory	1	0	3	5
7	ME101L	Hands on Engineering Laboratory	0	0	3	3
8	CC	NSO/NSS/NCC/NCA	0	0	2	2
		Total Credits				**37**

Semester III

S.No	Course Code	Course Name	L	T	P	C
1	MA110T	Complex Analysis and Differential Equations II	3	0	0	9
2	EE205T	Introduction to Probability (1st Half)	3	0	0	3
3	EE207T	Data Analysis (2nd Half)	3	0	0	3
4	EE204T	Signals and Systems	2	1	0	6
5	EE201T	Introduction to Analog Circuits (1st Half)	3	0	0	3
6	EE201L	Devices and Circuit Lab	0	0	3	3
7	PH102T	Electricity and Magnetism			6	6
8	HS201T	Economics	3	0	0	6
		Total Credits				39

Semester - IV

S. No	Course Code	Course Name	L	T	P	C
1	EE 239	Control Systems Engineering	3	0	0	6
2	EE203L	Control Systems Engineering Lab	0	0	3	3
3	EE209T	Introduction to modern communication systems	2	0	2	6

4	EE202T	Introduction to Electrical Machines (1st Half)	3	0	0	3
5	EE206T	Introduction to Power Systems (2nd Half)	2	0	2	3
6	EE203T	Introduction to Power Electronics (1st Half)	3	0	0	3
7	EE202L	Electrical Mechines and Power Electronics Lab	0	0	3	3
8	CS101T	Data Structures and Algorithms	3	0	0	6
9	CS602L	Data Structures and Algorithms Lab	0	0	3	3
		Total Credits				36

Semester V

S.No	Course Code	Course Name	L	T	P	C
1	MA412T	Numerical Analysis	2	1	0	6
2	EE301T	Microprocessors and Microcontrollers	3	0	0	6
3	EE302L	Microprocessors and Microcontrollers Lab	0	0	3	3
4	EE302C	Fundamentals of Digital Signal Processing	2	0	2	6
5		Electives				18
	Total Credits					39

Semester VI

S.No	Course Code	Course Name	L	T	P	C
1	CE301T	Environmental Studies	3	0	0	6
2	EE301L	Electronic Design Laboratory	3	0	0	6
3		Elective Courses				24
	EE301O	Technical Writing				2
		Total Credits				38

Semester VII

S.No	Course Code	Course Name	L	T	P	C
1		Electives				30

Semester VIII

S.No	Course Code	Course Name	L	T	P	C
1		Electives				18

	Overal Credits Required (Minimum)			**269**

The courses that the students take in the third and fourth years define the programme. In semester 5 (Elective_18) and semester 6 (Elective _24)