

Electrical Engineering

Electronics and Communication Engineering						
SEMESTER - I (Common for all B.Tech Courses)						
S.No	C. Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6
3	CS 101	Computer Programming	3	0	2	8
4	PH 101	Quantum Physics and Applications	2	1	0	6
5	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
6	CC	NSO/NSS/NCC/NCA	0	0	2	2
7	EE 104	Formal Communications	1	0	0	2
	First Semester Total Credits					32
Semester - II						
S.No	Course Code	Course Name	L	T	P	C
1	MA 102	Linear Algebra (1st Half)	3	1	0	4
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4
3	EE 204	Digital Systems	2	1	0	6
4	EE 214	Digital Circuits Lab	0	0	3	3
5	EE 205	Network Theory	2	1	0	6
6	EE 229	Electronic Devices (2nd Half)	3	0	0	3
7	ME 111	Engineering Graphics Laboratory	1	0	3	5
8	ME 113	Hands on Engineering Laboratory	0	0	3	3
9	CC	NSO/NSS/NCC/NCA	0	0	2	2
		Total Credits				36
Semester III						
S.No	Course Code	Course Name	L	T	P	C
1	MA106T	Complex Analysis (1st Half)	3	1	0	4

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2	MA201T	Differential Equations II (2nd Half)	3	1	0	4
3	EE205T	Introduction to Probability (1st Half)	3	0	0	3
4	EE207T	Data Analysis (2nd Half)	3	0	0	3
5	EE204T	Signals and Systems	2	1	0	6
6	EE201T	Introduction to Analog Circuits (1st Half)	3	0	0	3
7	EE201L	Devices and Circuit Lab	0	0	3	3
8	PH102T	Electricity and Magnetism			6	6
9	HS201T	Economics	3	0	0	6
		Total Credits				38

Semester - IV

S.No	Course Code	Course Name	L	T	P	C
1	EE208T	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	CS101L	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

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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	Electronics Design Lab	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
	Overall 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)

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