

Electrical 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	NO107/ NO105/ NO 106/ NO 108	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	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
Total Credits						

36

Semester III

S.No	Course Code	Course Name	L	T	P	C
1	MA 201	Complex Analysis (1st Half)	3	1	0	4
2	MA 203	Differential Equations II (2nd Half)	3	1	0	4
3	EE 221	Introduction to Probability (1st Half)	3	0	0	3
4	EE 227	Data Analysis (2nd Half)	3	0	0	3
5	EE 210	Signals and Systems	2	1	0	6
6	EE 202	Introduction to Analog Circuits (1st Half)	3	0	0	3
7	EE212	Devices and Circuit Lab	0	0	3	3
8	PH 102	Electricity and Magnetism			6	6

9	HS 201	Economics	3	0	0	6
		Total Credits				38

Semester - IV

S. No	Course Code	Course Name	L	T	P	C
1	EE 239	Control Systems Engineering	3	0	0	6
2	EE 217	Control Systems Engineering Lab	0	0	3	3
3	EE 240	Introduction to modern communication systems	2	0	2	6
4	EE 206	Introduction to Electrical Machines (1st Half)	3	0	0	3
5	EE 223	Introduction to Power Systems (2nd Half)	2	0	2	3
6	EE 209	Introduction to Power Electronics (1st Half)	3	0	0	3
7	EE 311	Electrical Machines and Power Electronics Lab	0	0	3	3
8	CS 201	Data Structures and Algorithms	3	0	0	6
9	CS 211	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	MA 404	Numerical Analysis	2	1	0	6
2	EE 325	Microprocessors and Microcontrollers	3	0	0	6
3	EE 319	Microprocessors and Microcontrollers Lab	0	0	3	3
4	EE 320	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	CE 301	Environmental Studies	3	0	0	6
2	EE 314	Electronics Design Lab	3	0	0	6
3		Elective Courses				24
	EE 322	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
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