

## B. Tech Curriculum - Electrical Engineering From Academic Year 2019-20

### Semester - I

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical and Theoretical Chemistry/ Organic and Inorganic Chemistry	SCY	2-1-0-3
3.	ID1101	Concepts in Engineering and Design	BET	1-0-2-2
4.	MA1101	Calculus	SMA	3-1-0-4
5.	PH1101	Introduction to Classical Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Laboratory / Chemistry Laboratory	SPH/SCY	0-0-3-2
7.	EA1103	Workshop-I	BES	0-0-3-2
8.	HS1101/ HS1103/ HS1105/ HS1107	Language Course (Pass/Fail)	HPF	2-0-0-2
<b>Total</b>				<b>22/21</b>

### Semester - II

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical and Theoretical Chemistry Organic and Inorganic Chemistry	SCY	2-1-0-3
3.	ES1201	Basic Electrical Engineering	BET	3-1-0-4
4.	MA1202	Differential Equations and Matrices	SMA	3-1-0-4
5.	PH1202	Introduction to Electrodynamics and Quantum Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Laboratory / Chemistry Laboratory	SPH/SCY	0-0-3-2
7.	EA1202	Workshop-II	BES	0-0-3-2
<b>Total</b>				<b>21/22</b>

### Semester - III

S No	Course No	Course Name	Category	L-T-P-C
1.	BS2101	Life Sciences	SLS	2-0-0-2
2.	CS/EE2101	Digital Systems	PMT	3-1-0-4
3.	CS/EE2191	Digital Systems Laboratory	PML	0-0-3-2
4.	EE2202	Electrical Circuits and Networks	PMT	3-1-0-4
5.	ES2101	Engineering Mechanics	BET	3-1-0-4
6.	HSE1	Humanities Elective-1	HSS	3-0-0-3
7.	MA2021	Linear Algebra	SMA	3-0-0-3
<b>Total</b>				<b>22</b>

### Semester - IV

S No	Course No	Course Name	Category	L-T-P-C
1.	EE2103	Signals and Systems	PMT	3-1-0-4
2.	EE2204	Solid State Devices	PMT	3-0-2-4
3.	EE3204	Principles of Measurement	PMT	3-0-2-4
4.	EE2208	Electromagnetic Fields	PMT	3-1-0-4
5.	ES2103	Ecology and Environment	BET	2-0-0-2
6.	HSE2	Humanities Elective-2	HSS	3-0-0-3
7.	MA2023	Probability and Statistics	SMA	3-0-0-3
<b>Total</b>				<b>24</b>

**Semester - V**

S No	Course No	Course Name	Category	L-T-P-C
1.	EE3101	Analog Circuits	PMT	3-1-0-4
2.	EE3103	Electrical Machines	PMT	3-1-0-4
3.	EE3105	Control Engineering	PMT	3-1-0-4
4.	EE2206	Digital Signal Processing	PMT	3-1-2-5
5.	EE3191	Analog Circuits Laboratory	PML	0-0-3-2
6.	EE3193	Electrical Machines Laboratory	PML	0-0-3-2
7.	FRE1	Free Elective-1	FRE	3-0-0-3
<b>Total</b>				<b>24</b>

**Semester - VI**

S No	Course No	Course Name	Category	L-T-P-C
1.	EE3202	Power Systems	PMT	3-1-0-4
2.	EE3107	Communication Systems	PMT	3-1-0-4
3.	DPE1	Department Elective-1	PMT	3-0-0-3
4.	DPE2	Department Elective-2	PMT	3-0-0-3
5.	HSE3	Humanities Elective-3	HSS	3-0-0-3
6.	EE4191	Control and Automation Laboratory	PML	0-0-3-2
<b>Summer</b>				
7.	IT3202	Industrial/Research Internship	PIT	--- 2
<b>Total</b>				<b>21</b>

**Semester - VII**

S No	Course No	Course Name	Category	L-T-P-C
1.	EE4101	Power Electronics	PMT	3-1-0-4
2.	EE4150	Project Phase-I	PMP	--- 2
3.	DPE3	Department Elective-3	PMT	3-0-0-3
4.	DPE4	Department Elective-4	PMT	3-0-0-3
5.	FRE2	Free Elective-2	FRE	3-0-0-3
6.	IL4101	Industrial Lecture	PIL	1-0-0-1
<b>Total</b>				<b>16</b>

**Semester - VIII**

S No	Course No	Course Name	Category	L-T-P-C
1.	EC4250	Project Phase-II	PMP	--- 7
2.	HS4202	Professional Ethics	HPE	2-0-0-2
3.	DPE5	Department Elective-5	PMT	3-0-0-3
4.	FRE3	Free Elective-3	FRE	3-0-0-3
<b>Total</b>				<b>15</b>

**Total Credits 165**