

## 2022 - Electrical Engineering

### Semester I

S. No	Course Code	Course Name	L	T	P	C
1	CH 102	Fundamental concepts and applications of chemistry	3	0	0	6
2	MA 109	Calculus I (1st Half)	3	1	0	4
3	MA 121	Calculus II (2nd Half)	3	1	0	4
4	PH 101	Quantum Physics and Applications	2	1	0	6
5	BB 103	Introduction to Modern Biology	3	0	0	6
6	CS 103	Introduction to Programming - 1 (Using C) (1st Half)	3	0	2	4
7	EE 103	Introduction to Programming - 2 (Using Python) (2nd Half)	3	0	2	4
8	PH 113	Hands on Science Laboratory - I	0	0	3	3
9	HS 103	Introduction to Fine Arts	1	0	0	PP/NP
10	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
11	NO 101/ NO 103	National Sports Organization (NSO)/National Service Scheme (NSS)				PP/NP
		Total Credits				37

### 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	ME 111	Engineering Graphics Laboratory	1	0	3	5
4	EE 101	Introduction to Electrical and Electronics Circuits	3	0	0	6
5	CS 201	Data Structures and Algorithms	3	0	0	6
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3
7	ME 113	Hands on Engineering Laboratory	0	0	3	3
8	PH 102	Electricity and Magnetism	2	1	0	6
9	NO 102/ NO 104	National Sports Organization (NSO)/National Service Scheme (NSS)				PP/NP
		Total Credits				37



S. No	Course Code	Course Name	L	T	P	C
1	EE 325	Microprocessors and Microcontrollers	3	0	0	6
2	EE 321	Digital Signal Processing (1st Half)	3	0	0	3
3	EE 315	Digital Signal Processing Lab (2nd Half)	0	0	4	2
4	EE 319	Microprocessors and Microcontrollers Lab	0	0	3	3
5	EE 311	Electrical Machines and Power Electronics Lab	0	0	3	3
6		HSS Elective	3	0	0	6
7		Electives				6
		Electives				6
		Total Credits				35

### 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
		Total Credits				36

### Semester VII & VIII

1. Student has to earn 36 credits in the fourth year.
2. Student may choose to earn zero or 6 or 12 credits through BTP/co-op project.
3. The BTP/co-op may be split in two semesters (6 credits per semester).
4. The remaining credits should be earned through Institute Elective.
5. Student has to credit one 6 credits course from HSS Basket 1 and Basket 2, each.

		Total Credits	36
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Final year: Students have to earn 36 credits in the fourth year. If the students have taken overload in the previous semesters, then he/she should take an appropriate number of elective courses to complete a total of 254 credits.

**Overall Credits Required (Minimum)**

**254**

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