2022 - Electrical Engineering

	Semester I					
S. No	Course Code	Course Name	L	T	P	C
		Fundamental concepts and applications of				
1	CH 102	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
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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

		Semester III				
S. No	Course Code	Course Name	L	T	P	C
1	EE 221	Introduction to Probability (1st Half)	3	0	0	3
2	EE 227	Data Analysis (2nd Half)	3	0	0	3
3	EE 229	Electronic Devices (1st Half)	3	0	0	3
4	EE 202	Introduction to Analog Circuits (2nd Half)	3	0	0	3
5	EE 205	Network Theory	3	0	0	6
6	EE 210	Signals and Systems	3	0	0	6
7	MA 201	Complex Analysis (1st Half)	3	1	0	4
8	MA 203	Differential Equations II (2nd Half)	3	1	0	4
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 206	Introduction to Electrical Machines (1st Half)	3	0	0	3
2	EE 209	Introduction to Power Electronics (2nd Half)	3	0	0	3
3	EE 208	Engineering Electromagnetics (1st Half)	2	1	0	3
4	EE 223	Introduction to Power Systems (2nd Half)	2	0	2	3
5	EE 232	Introduction to Communication Systems (1st Half)	3	1	0	3
6	EE 216	Comunications Lab (2nd Half)	0	0	4	2
7	EE 224	Digital Systems	3	0	0	6
8	EE 214	Digital Circuits Lab	0	0	3	3
9	EE 226	Control Systems and Laboratory	2	0	2	6
10	EE 212	Devices and Circuits Lab	0	0	3	3
		Total Credits	<u> </u>	1		35

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 Mechines 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 though 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

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)