2022 - Electrical Engineering

Semester I							
S. No	Course Code	Course Name	L	Т	Р	С	
		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	
	NO 101/	National Sports Organization (NSO)/National Service					
11	NO 103	Scheme (NSS)				PP/NP	
		Total Credits				37	

		Semester II				
S. No	Course Code	Course Name	L	Т	Р	С
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	Т	Р	С	
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	Т	Р	С	
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				35	

Semester V							
S. No	Course Code	Course Name	L	Т	Р	С	
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				12	
		Total Credits				35	

Semester VI							
S. No	Course Code	Course Name	L	Т	Р	С	
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)	254				