

IV SEMESTER														
Sl. No.	Course Code	Course Title	Credit Allocation				BoS	Category	CIE Duration (H)	Max Marks CIE		SEE Duration (H)	Max Marks SEE	
			L	T	P	Total				Theory	Lab		Theory	Lab
1	21MA41A*	Statistics and Probability for Data Science	2	1	0	3	MA	Theory	1.5	100	****	3	100	****
2	21EC42**	Materials for Electronics Engineering (common with EI/ET/EC/EE)	2	0	0	2	EC	Theory	1	50	****	2	50	****
3	21EI43	Microcontroller & Programming (common with EI/ET/EC/EE)	3	0	1	4	EI	Theory+Lab	1.5	100	50	3	100	50
4	21EC44	Signals & Systems (Common with EC/EI)	3	0	1	4	EC	Theory+Lab	1.5	100	50	3	100	50
5	21EI45	Transducers and Actuators	3	0	1	4	EI	Theory+Lab	1.5	100	50	3	100	50
6	21EI4AX	Professional Core Elective – Group A	2	0	0	2	EI	MOOC	1.5	50	****	2	50	****
7	21EI46	Design Thinking Lab	0	0	2	2	EI	Lab	1	****	50	2	****	50
8	21DCS47***	Bridge Course : C Programming	2 (A)	1	0	AUDIT	CS	Theory	1.5	50	****	***	***	****
9	21HSU48	Universal Human Values and Professional Ethics	2	0	0	2	HSS	Theory	1	50	****	2	50	****
23														

* Summer Internship-II will be done after the IV sem for 04 Weeks

FIFTH SEMESTER CREDIT SCHEME							
Sl. No	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HEM51	Foundations of Management and Economics	HSS	3	0	0	3
2.	18EI52	Data Networks	EI	3	1	0	4
3.	18TE53	Digital Signal Processing (Common to TE, EI, & EE) (Theory & Practice)	TE	3	0	1	4
4.	18EI54	VLSI Design (Theory & Practice)	EI	4	0	1	5
5.	18EI55	Virtual Instrumentation & Simulation (Practice)	EI	0	0	2	2
6.	18EI5AX	Group A: Professional Electives (MOOC Courses)	EI	3	0	0	3
7.	18G5BXX	Group B: Global Elective Smart Sensors & Instrumentation	EI	3	0	0	3
Total Number of Credits				19	1	10	24
Total number of Hours/Week				19	2	20	24

SIXTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HSI61	IPR & Entrepreneurship	HSS	3	0	0	3
2.	18EI62	Automatic Process Control Technology (Theory & Practice)	EI	3	0	1	4
3.	18EI63	Advanced Micro-controller & Application (Theory & Practice)	EI	3	1	1	5
4.	18EI64	Minor Project**	EI	0	0	2	2
5.	18EI6CX	Elective C: Professional Electives	EI	3	0	0	3
6.	18EI6DX	Elective D: Professional Electives	EI	3	0	0	3
7.	18G6EXX	Elective E: Global Elective Virtual Instrumentation & Applications	EI	3	0	0	3
8.	18HSE68	Professional Practice-II	HSS	0	0	1	1
Total Number of Credits				18	1	5	24
Total number of Hours/Week				18	2	10+2.5	24

SEVENTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HS71	Constitution of India and Professional Ethics	HSS	3	0	0	3
2.	18EI72	Industrial Automation Technologies	EI	4	0	1	5
3.	18EI73	Advanced Image Processing	EI	3	0	1	4
4.	18EI74	Internship	EI	0	0	2	2
5.	18EI7FX	Elective F (PE)	EI	3	0	0	3
6.	18EI7GX	Elective G (PE)	EI	3	0	0	3
7.	18G7HXX	Elective H (GE)*	Res. BOS	3	0	0	3
Total Number of Credits				19	0	4	23
Total number of Hours/Week				19	0	10	

EIGHT SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18EIP81	Major Project	EI	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week				0	0	32	32