

I SEMESTER: PHYSICS CYCLE (EC STREAM) EC, EE, EI & ET[illegible]

II SEMESTER: CHEMISTRY CYCLE (EC STREAM) EC, EE, EI & ET

[illegible]

III 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	21MA31B*	Linear algebra, Integral transforms and Fourier series	3	1	0	4	MA	Theory	1.5	100	****	3	100	****
2	21BT32A	Environmental Technology	2	0	0	2	BT	Theory	1	50	****	2	50	****
3	21EE33	Linear Integrated Circuits (common with EE / ET/ EI)	3	0	1	4	EE	Theory+Lab	1.5	100	50	3	100	50
4	21EC34	Analysis and Design of Digital Circuits (Common with EC/EE/ EI/TE)	3	0	1	4	EC	Theory+Lab	1.5	100	50	3	100	50
5	21EE35	Network Analysis	3	1	0	4	EE	Theory	1.5	100	****	3	100	****
6	21EE36	Measurement and Transducers	2	0	0	2	EE	Theory	1	50	****	2	50	****
7	21DMA37***	Bridge Course: Mathematics	2(A)	0	0	AUDIT	MA	Theory	1.5	50	****	****	****	****
8	21HS38A / 21HS38V	Kannada Course: AADALITHA KANNADA (21HS38A) / VYAVAHARIKA KANNADA (21HS38V)	1	0	0	1	HSS	Theory	1	50	****	2	50	****
	21HSAE39A/ B/C/D/E ***	Ability Enhancement course	0	0	1	1	HSS	Lab	1	****	50	2	****	50
10	21EEI310	Summer Internship- I	0	0	1	1	EE	Internship	1	****	50	2	****	50

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	21MA41	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 EC/EE/ EI/TE)	2	0	0	2	EC	Theory	1	50	****	2	50	****
3	21EI43	Microcontroller & Programming (Common with EC/EE/ EI/TE)	3	0	1	4	EI	Theory+Lab	1.5	100	50	3	100	50
4	21EE44	Power Electronics	2	1	1	4	EE	Theory+Lab	1.5	100	50	3	100	50
5	21ET45	Principles of Electromagnetic Fields (Common to EE/ET)	3	1	0	4	ET	Theory	1.5	100	****	3	100	****
6	21EE4AX	Professional Core Elective – Group A	2	0	0	2	EE	MOOC	1.5	50	****	2	50	****
7	21EE46	Design Thinking Lab	0	0	2	2	EE	Lab	1	****	50	2	****	50
9	21DCS47**	Bridge Course: C Programming	2 (A)	1	0	AUDIT	CS	Theory	1.5	50	****	****	****	****
10	21HSU48	Universal Human Values and Professional Ethics	2	0	0	2	HSS	Theory	1	50	****	2	50	****
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FIFTH SEMESTER CREDIT SCHEME

Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HSI51	Intellectual Property Rights and Entrepreneurship	HSS	3	0	0	3
2.	18EE52	Electrical Machines-II (Theory & Practice)	EE	3	1	1	5
3.	18TE53	Digital Signal Processing (common to EE, TE, EI) (Theory & Practice)	TE	3	0	1	4
4.	18EE54	Generation Transmission and Distribution	EE	3	1	0	4
5.	18EE55	Minor Project	EE	0	0	2	2
6.	18EE5AX	Elective A (PE)**	EE	3	0	0	3
7.	18G5BXX	Group B: Global Elective**	Resp. BoS	3	0	0	3
Total Number of Credits							24
Total number of Hours/Week				18	2	10	

SIXTH SEMESTER CREDIT SCHEME							
Sl. No	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HEM61	Foundations of Management & Economics	HSS	3	0	0	3
2.	18EE62	Power Electronics Applications to Drives (Theory & Practice)	EE	3	0	1	4
3.	18EE63	Modern Control Theory (Theory & Practice)	EE	3	0	1	4
4.	18EE64	Power System Analysis-I	EE	3	0	0	3
5.	18EE6CX	Elective C (PE)***	EE	3	0	0	3
6.	18EE6DX	Elective D (PE)	EE	3	0	0	3
7.	18G6EXX	Group E: Global Elective**	Resp. BoS	3	0	0	3
8.	18HS68	Professional Practice- II (Employability Skills and Professional Development of Engineers)	HSS	0	0	1	1
Total Number of Credits							24
Total number of Hours/Week				21	0	5+1	

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.	18EE72	Power System Analysis –II	EE	3	1	1	5
3.	18EE73	Switchgear & Protection	EE	3	0	1	4
4.	18EE74	Internship *	EE	0	0	2	2
5.	18EE7FX	Elective F (PE)	EE	3	0	0	3
6.	18EE7GX	Elective G (PE)	EE	3	0	0	3
7.	18G7HXX	Elective H (GE) **	Res. BOS	3	0	0	3
Total Number of Credits				18	1	4	23
Total number of Hours/Week				18	2	10	

Note: * Internship (6 weeks) is to be carried during the vacation after 6th semester and evaluation shall be conducted during 7th semester for 2 credits.

** Students should take other department Global Elective courses.

EIGHTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18EEP81	Major Project	EE	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week						32	