		FIRST	SEMESTER CHEMISTRY CYCLE										
	CS & CV STREAMS: (AI, BT, CS, CD, CY & IS) & (CV)												
SL. NO.	SL. NO. BoS Course Code Course Title												
1	MA	22MA11C	Fundamentals of Linear Algebra, Calculus And Statistics	4	CS								
	MA	22MA11D	Applied Mathematics – I	4	cv								
2	CHY	22CHY12A	Chemistry Of Smart Materials And Devices	4	CS								
	CHY	22CHY12B	Engineering And Environmental Chemistry	4	CV								
3	ME	22MED13	Computer Aided Engineering Graphics	3	CS & CV								
4	XX	22ES14X	Engineering Science Courses-I	3	CS & CV								
5	XX	22PL15X	Programming Language Courses	3	CS & CV								
6	HSS	22HSE16	Communicative English-I	1	CS & CV								
7	HSS	22HSI17	Fundamentals of Indian Constitution	1	CS & CV								
8	HSS	22HSYI8	Scientific Foundations of Health-Yoga Practice	1	CS & CV								

SECOND SEMESTER PHYSICS CYCLE CS & CV STREAMS: (AI, BT, CS, CD, CY & IS) & (CV)

SL. NO.	BoS	Course Code	Course Title	Credits	Stream
1	MA	22MA21C	Number Theory, Vector Calculus And Computational Methods	4	cs
	MA	22MA21D	Applied Mathematics – II	4	cv
2	PHY	22PHY22C	Quantum Physics for Engineers	4	CS
	PHY	22PHY22D	Applied Physics for Engineers	4	CV
3	XX	22XX23	Professional Core Courses	3	CS & CV
4	XX	22ES24X	Engineering Science Courses-II	3	CS & CV
5	XX	22EM2XX	Emerging Technology Courses-II	3	CS & CV
6	HSS	22HSE26	Communicative English-II	1	CS & CV
7	HSS	22HSSK27/ 22HSBK27	Samskruthika Kannada Balake Kannada	1	CS & CV
8	ME	22ME28	IDEA LAB (Idea Development, Evaluation & Application)	1	CS & CV

					П	I SEME	STE	R						
Sl. No.	Course Code	Course Title	Credit Alloca			ntion	BoS	Category	CIE Duration (H)	Max Marks CIE		SEE Duration (H)	Max Marks SEE	
			L	T	P	Total			(H)	Theory	Lab	(H)	Theory	Lab
1	21MA31A	Linear algebra, Integral transforms and Number theory	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	21IS33	Data Structure and Applications (Common to CS & IS)	3	0	1	4	IS	Theory+Lab	1.5	100	50	3	100	50
4	21IS34	Digital Design and Computer Organization	3	1	0	4	IS	Theory	1.5	100	****	3	100	****
5	21CS35	Operating Systems (Common to CS, IS & AI)	2	0	1	3	CS	Theory+Lab	1.5	100	50	3	100	50
6	21CS36	Discrete Mathematical Structures (Common to CS, IS & AI)	3	0	0	3	CS	Theory	1.5	100	***	2	100	***
7	21DCS37*	Bridge Course: C Programming	2(A)	0	0	AUDIT	CS	Theory	1	50	****	-	***	****
8	21HS38A / 21HS38V	Kannada Course: AADALITHA KANNADA / VYAVAHARIKA KANNADA	1	0	0	1	HSS	Theory	1	50	***	2	50	***
9	21HSAE39A/ B/ C/D/E**	Ability Enhancement course	0	0	1	1	HSS	Lab	1	***	50	2	****	50
10	21ISI310	Summer Internship- I	0	0	1	1	IS	Internship	1	****	50	1	****	50
						23								

^{*} Summer Internship-1 will be done after the II sem for 03 Weeks

					ESTE		CIE	Max Marks		SEE	Max Marks			
Sl. No.	Course Code	Course Title	Credit Allocation			ation	BoS	Category	Duration	CIE		Duration	SEI	
			L	Т	P	Total			(H)	Theory	Lab	(H)	Theory	Lab
1	21MA41	Statistics and Probability for Data Science	2	1	0	3	MA	Theory	1.5	100	****	3	100	****
2	21BT42	Bioinspired Engineering	2	0	0	2	BT	Theory	1	50	****	2	50	****
3	21CS43	Design and Analysis of Algorithms (Common to CS, IS & Al)	3	0	1	4	CS	Theory+Lab	1.5	100	50	3	100	50
4	21IS44	Theory of Computation	3	0	0	3	IS	Theory	1.5	100	***	3	100	***
5	21CS45	Computer Networks (Common to CS, IS & AI)	3	0	0	3	CS	Theory	1.5	100	****	3	100	***
6	21IS4AX	Professional Elective – Group A	2	0	0	2	IS	MOOC	1	50	****	2	50	****
7	21IS46	Design Thinking Lab	0	0	2	2	IS	Lab	1	***	50	2	****	50
8	21DMA47	Bridge Course: Mathematics ***	2 (A)	1	0	AUDIT	MA	Theory	1.5	50	****	***	***	***
9	21HSU48	Universal Human Values and Professional Ethics	2	0	0	2	HSS	Theory	1	50	****	2	50	***
10	21IS49	Programming in JAVA	1	0	1	2	IS	Theory+Lab	1	50	50	2	50	50

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

CL N	Course	Course Code Course Title	D. C.	Cred	ation	Total	
Sl. No	Code		BoS	L	T	P	Credits
1.	18HSI51	Intellectual Property Rights and Entrepreneurship	HSS	3	0	0	3
2.	18IS52	Computer Networks	IS	3	0	0	3
3.	18CS53	Database Design (Common to CS & IS)	CS	3	0	1	4
4.	18IS54	Compiler Design	IS	4	0	0	4
5.	18IS55	Software Engineering (Common to CS & IS)	IS	3	0	1	4
6.	18IS5AX	Group A: Professional Electives (MOOC Courses)	IS	3	0	0	3
7.	18G5BXX	Group B: Global Elective	Respec tive BOS	3	0	0	3
Total Number of Credits					0	2	24
	,	Total number of Hours/Week		21	0	7.5+2	

	SIXTH SEMESTER CREDIT SCHEME											
Sl.	6 6 1	G TIVE	D. C	Cre	dit All	ocation	Total					
No.	Course Code	Course Title	BoS	L	T	P	Credits					
1.	18HEM61	Introduction to Management and Economics	HSS	3	0	0	3					
2.	18CS62	Artificial Intelligence and Machine Learning (Common to CS & IS)	CS	3	1	1	5					
3.	18IS63	Cryptography and Network Security (Theory & Practice)	IS	3	0	1	4					
4.	18IS64	Minor Project**	IS	0	0	2	2					
5.	18IS6CX	Elective C: Professional Electives	IS	3	0	0	3					
6.	18IS6DX	Elective D: Professional Electives	IS	3	0	0	3					
7.	18G6EXX	Elective E: Global Elective	IS	3	0	0	3					
8.	18HSE68	Professional Practice-II	HSS	0	0	1	1					
		19	00	05	24							
	Total number of Hours/Week											

	SEVENTH SEMESTER CREDIT SCHEME												
Sl. No.	Course	e Course Title	BoS	Cred	ation	Total							
D1. 110.	Code		200	L	T	P	Credits						
1.	18HS71	Constitution of India and Professional Ethics	HSS	3	0	0	3						
2.	18IS72	Virtual Reality and Augmented Reality (Theory and Practice)	IS	3	0	1	4						
3.	18IS73	Cyber Security and Digital Forensics (Theory and Practice)	IS	3	1	1	5						
4.	18IS74	Internship	IS	0	0	2	2						
5.	18IS7FX	Elective F (PE)	IS	3	0	0	3						
6.	18IS7GX	Elective G (PE)	IS	3	0	0	3						
7.	18G7HXX	Elective H (OE)*	Res. BOS	3	0	0	3						
		Total Number of Credits	18	1	4	23							
		Total number of Hours/Week	18	2	10								

^{**}Note: Internship is to be carried during the vacation after 6th semester and evaluation to be conducted during 7th semester for 2 credits.

	EIGHT SEMESTER CREDIT SCHEME												
Sl.	Course Code	Course Title	BoS	Credi	tion	Total							
No.	course coue	Course Title	D 05	L	T	P	Credits						
1.	18ISP81	Major Project	IS	0	0	16	16						
		0	0	16	16								
				32									