

I SEMESTER: PHYSICS CYCLE (ME STREAM) AS, CH, IM & ME														
Sl. No.	Course Code	Course Title	BoS	Credit Allocation				Category	CIE Duration (H)	Max Marks CIE		SEE Duration (H)	Max Marks SEE	
				L	T	P	Total			Theory	Lab		Theory	Lab
1	22MA11B	Fundamentals of Linear Algebra, Calculus and Differential Equations	MA	3	1	0	4	Theory	1.5	100	***	3	100	***
2	22PHY12B	Classical Physics for Engineers	PHY	2	1	1	4	Theory+Lab	1.5	100	***	3	100	***
3	22ME13	Elements of Mechanical Engineering	ME	2	1	0	3	Theory	1.5	100	***	3	100	***
4	22ES14X	Engineering Science Course - I	XX	3	0	0	3	Theory	1.5	100	***	3	100	***
5	22EM1XX	Emerging Technology Course	XX	3	0	0	3	Theory	1	100	***	3	100	***
6	22HSE16	Communicative English-I	HSS	0	0	1	1	Lab	1	***	50	2	***	50
7	22HSSK17/ 22HSBK17	Samskrutika Kannada /Balake Kannada	HSS	1	0	0	1	Theory	1	50	***	2	50	***
8	22ME18	IDEA LAB (Idea Development, Evaluation &	ME	0	0	1	1	Lab	2	***	50	2	***	50
				14	3	3	20							

II SEMESTER: CHEMISTRY CYCLE (ME STREAM) AS, CH, IM & ME														
Sl. No.	Course Code	Course Title	BoS	Credit Allocation				Category	CIE Duration (H)	Max Marks CIE		SEE Duration (Hrs)	Max Marks SEE	
				L	T	P	Total			Theory	Lab		Theory	Lab
1	22MA21B	Vector Calculus and Computational Methods	MA	3	1	0	4	Theory	1.5	100	***	3	100	***
2	22CHY22D	Chemistry of Engineering materials	CHY	2	1	1	4	Theory+Lab	1.5	100	***	3	100	***
3	22MECD23	Computer Aided Engineering Graphics	ME	1	0	2	3	Lab	1.5	***	50	3	***	50
4	22ES24X	Engineering Science Course-II	XX	3	0	0	3	Theory	1.5	100	***	3	100	***
5	22PL25X	Programming Languages Course	XX	2	0	1	3	Theory+Lab	1.5	100	***	3	100	***
6	22HSE26	Communicative English-II	HSS	0	0	1	1	Lab	1	***	50	2	***	50
7	22HSI27	Fundamentals of Indian Constitution	HSS	1	0	0	1	Theory	1	50	***	2	50	***
8	22HSY28	Scientific Foundations of Health-Yoga Practice	HSS	0	0	1	1	Lab	1	***	50	2	***	50
				12	2	6	20							

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	21MA31C*	Integral transforms, Optimization and Numerical Techniques	3	1	0	4	MA	Theory	1.5	100	****	3	100	****
2	21ME32**	Engineering Materials	2	0	0	2	ME	Theory	1	50	****	2	50	****
3	21CH33	Momentum Transfer	3	0	1	4	CH	Theory + Lab	1.5	100	50	3	100	50
4	21CH34	Particulate Technology	3	0	1	4	CH	Theory + Lab	1.5	100	50	3	100	50
5	21CH35	Chemical Process Calculations	3	1	0	4	CH	Theory	1.5	100	****	3	100	****
6	21CH36	Industrial chemistry	2	0	0	2	CH	Theory	1	50	****	2	50	****
7	21DMA37***	Bridge course: Mathematics	2(A)	0	0	Audit	MA	Theory	1.5	100	****	****	****	****
8	21CH39	Design Thinking Lab	0	0	2	2	CH	Lab	1	****	50	2	****	50
9	21CH310	Summer Internship- I	0	0	1	1	CH	Internship	1	****	50	2	****	50
			23											

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

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	21BT42**	Environmental Technology	2	0	0	2	BT	Theory	1	50	****	2	50	****
3	21CH43	Process Heat Transfer	3	0	1	4	CH	Theory+Lab	1.5	100	50	3	100	50
4	21CH44	Chemical Reaction Engineering	3	0	1	4	CH	Theory+Lab	1.5	100	50	3	100	50
5	21CH45	Chemical Engineering Thermodynamics	3	1	0	4	CH	Theory	1.5	100	****	3	100	****
6	21CH4AX#	Professional Core Elective - Group A	2	0	0	2	CH	MOOC	1.5	50	****	2	50	****
7	21HS46A/21HS46V	Kannada Course: AADALITHA KANNADA/VYAVAHARI KA KANNADA	1	0	0	1	HSS	Theory	1	50	****	2	50	****
	21HSAE46A/B/C/D/E##	Ability Enhancement Course	0	0	1	1	HSS	Lab	1	****	50	2	****	50
8	21DCS47***	Bridge Course: C Programming	2 (A)	1	0	Audit	CS	Theory	1.5	50	****	****	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	Introduction to Management & Economics	HSS	3	0	0	3
2.	18CH52	Mass Transfer I	CH	3	0	0	3
3.	18CH53	Chemical Reaction Engineering (Theory & Practice)	CH	3	1	1	5
4.	18CH54	Process Dynamics and Control (Theory & Practice)	CH	3	0	1	4
5.	18CH55	Instrumental Methods of Analysis	CH	3	0	0	3
6.	18CH5AX	Group A: Professional Electives (MOOC Courses)	CH	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				21	0	7.5	

SIXTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HSI61	Intellectual Property Rights and Entrepreneurship	HSS	3	0	0	3
2.	18CH62	Chemical Equipment Design and Drawing (Theory & Practice)	CH	3	0	1	4
3.	18CH63	Mass Transfer II (Theory & Practice)	CH	4	0	1	5
4.	18CH64	Minor Project**	CH	0	0	2	2
5.	18CH6CX	Elective C : Professional Electives	CH	3	0	0	3
6.	18CH6DX	Elective D: Professional Electives	CH	3	0	0	3
7.	18G6EXX	Elective E: Global Elective	Resp .BoS	3	0	0	3
8.	18HSE68	Professional Practice-II	HSS	0	0	1	1
Total Number of Credits							24
Total number of Hours/Week				18	2	10+2.5	

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.	18CH72	Transport Phenomena	CH	3	0	1	4
3.	18CH73	Process Simulation and Modeling	CH	3	1	1	5
4.	18CH74	Internship	CH	0	0	2	2
5.	18CH7FX	Elective F (PE)	CH	3	0	0	3
6.	18CH7GX	Elective G (PE)	CH	3	0	0	3
7.	18G7HXX	Elective H (GE)	Res. BOS	3	0	0	3
Total Number of Credits				18	01	04	23
Total number of Hours/Week				18	02	10	

EIGHT SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18CHP81	Major Project	CH	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week						32	