

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	Sanskritika 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	21ME33	Solid Mechanics	3	0	1	4	ME	Theory+Lab	1.5	100	50	3	100	50
4	21ME34	Engineering Thermodynamics	3	0	1	4	ME	Theory+Lab	1.5	100	50	3	100	50
5	21ME35	Metrology and Machine Drawing	2	0	1	3	ME	Theory+Lab	1.5	100	50	3	100	50
6	21ME36	Python for Mechanical Engineers	2	0	0	2	ME	Theory	1	50	****	2	50	****
7	21DMA37***	Bridge Course: Mathematics	2(A)	0	0	AUDIT	MA	Theory	1	50	****	-	****	****
8	21ME39	Design Thinking Lab	0	0	2	2	ME	Lab	1	****	50	2	****	50
9	21MEI310	Summer Internship- I	0	0	1	1	ME	Lab	1	****	50	1	****	50
				22										

* Summer Internship-1 will be done after the II semester for 03 Weeks. (Will have CIE & SEE)

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	21BT42A**	Environmental Technology	2	0	0	2	BT	Theory	1	50	****	2	50	****
3	21ME43	Theory of Machines	3	0	0	3	ME	Theory	1.5	100	50	3	100	50
4	21ME44	Fluid Mechanics	3	0	1	4	ME	Theory+Lab	1.5	100	50	3	100	50
5	21ME45	Manufacturing Technology	2	0	1	3	ME	Theory+Lab	1.5	100	50	3	100	50
6	21ME4AX#	Professional Elective – Group A - MOOC Courses	2	0	0	2	ME	MOOC	1.5	50	****	2	50	****
7	21HS46A / 21HS46V	Kannada Course: AADALITHA KANNADA (21HS38A) / VYAVAHARIKA KANNADA (21HS38V)	1	0	0	1	HSS	Theory	1	50	****	2	50	****
	21HSAE46X#	Ability Enhancement course -I	0	0	1	1	HSS	Theory	1	50	****	2	50	****
8	21DCS47***	Bridge Course: C Programming	2(A)	1	0	AUDIT	CS	Theory	1	50	****	-	****	****
9	21HSU48	Universal Human Values and Social Connect	2	0	0	2	HSS	Theory	1	50	****	2	50	****
						21								

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

V Semester			
Sl. No.	Course Code	Course Title	Page No.
1.	18HEM51	Introduction to Management and Economics	1
2.	18ME52	CAD /CAM (Theory and Practice)	3
3.	18ME53	Heat Transfer (Theory and Practice)	6
4.	18ME54	Design of Machine Elements-I (Theory and Practice)	9
5.	18ME5AX	Elective A: *	12-20
6.	18G5BXX	Elective B: **	GE-B1-B38

VI Semester			
Sl. No.	Course Code	Course Title	Page No.
1.	18HSI61	Intellectual Property Rights & Entrepreneurship	21
2.	18ME62	Turbo Machinery	24
3.	18ME63	Design of Machine Elements-II	27
4.	18ME64	Minor Project*	30
5.	18ME6CX	Elective C (PE)	32-42
6.	18ME6DX	Elective D (PE)	43-52
7.	18G6EXX	Elective E **	GE-E1-E35
8.	18HS68	Professional Practice- II (Employability skills and Professional development of Engineers)	53

SEVENTH SEMESTER CREDIT SCHEME							
Sl. No	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HSC71	Constitution of India and Professional Ethics	HSS	3	0	0	3
2.	18ME72	Vibration and Control Systems	ME	3	0	1	4
3.	18ME73	Finite Element Methods	ME	2	1	1	4
4.	18ME74	Internship	ME	0	0	2	2
5.	18ME7FX	Elective F (PE)	ME	3	0	0	3
6.	18ME7GX	Elective G (PE)	ME	3	0	0	3
7.	18G7HXX	Elective H (GE) - Robotics and Automation	Res. Dept.	3	0	0	3
Total Number of Credits				17	1	4	22
Total number of Hours/Week				17	2	5	

EIGHTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18MEP81	Major Project	ME	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week				0	0	32	