

I Year BE Programs of 2022 Scheme (Components and Credit structure)

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	21IM32	Mechanics of Materials	3	0	1	4	IM	Theory+Lab	1.5	100	50	3	100	50
3	21IM33	Work System Design	3	0	1	4	IM	Theory+Lab	1.5	100	50	3	100	50
4	21IM34	Manufacturing Processes	3	0	1	4	IM	Theory+Lab	1.5	100	50	3	100	50
5	21DMA37	Bridge Course Mathematics	2 (A)	0	0	Audit	MA	Theory	1	100	--	--	--	--
6	21IM39	Design Thinking Lab	0	0	2	2	IM	Lab	1	--	50	2	--	50
7	21IMI310	Summer Internship - I	0	0	1	1	IM	Internship	1	--	50	2	--	50
						19								

* 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	21IM41	Statistics for Data Analytics	3	0	1	4	IM	Theory+Lab	1.5	100	50	3	100	50
2	21BT42A	Environmental Technology	2	0	0	2	BT	Theory	1	50	--	2	50	--
3	21IM43	CAD/CAM and Robotics	3	0	1	4	IM	Theory+Lab	1.5	100	50	3	100	50
4	21IM44	Marketing Management	3	0	0	3	IM	Theory	1.5	100	--	3	100	--
5	21IM45	Financial Accounting and Management	3	1	0	4	IM	Theory	1.5	100	--	3	100	--
6	21IM4AX	Professional Elective – Group A (Local Elective)	2	0	0	2	IM	MOOC	1	50	--	2	50	--
7	21HS46A / 21HS46V	Kannada Course: Aadalitha Kannada / Vyavaharika Kannada	1	0	0	1	HSS	Theory	1	50	--	2	50	--
	21HSAE46 A/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	--	--	--	--
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.	18IM52	Decision Sciences - II (Stochastic Models)	IM	3	0	1	4
3.	18IM53	Statistical Process Control	IM	3	0	1	4
4.	18IM54	Operations Management	IM	3	0	1	4
5.	18IM55	Marketing Management	IM	3	0	0	3
6.	18IM5AX	Elective A (PE)*	IM	3	0	0	3
7.	18G5BXX	Elective B (GE)**	Respective BOS	3	0	0	3
8.	18IM56	Internship	IM	0	0	2	2
		Total Number of Credits					26
		Total number of Hours/Week		21	0	13	

SIXTH SEMESTER CREDIT SCHEME

Sl. No	Course Code	Course Title	BOS	Credit Allocation			Total Credits
				L	T	P	
1.	18HSI61	Intellectual Property Rights & Entrepreneurship	HSS	3	0	0	3
2.	18IM62	Financial Accounting and Costing	IM	3	1	0	4
3.	18IM63	Supply Chain Management	IM	4	0	1	5
4.	18IM64	Minor Project*	IM	0	0	2	2
5.	18IM6CX	Elective C (PE)	IM	3	0	0	3
6.	18IM6DX	Elective D (PE)	IM	3	0	0	3
7.	18G6EXX	Elective E (GE)**	Respective BOS	3	0	0	3
8.	18HSE68	Professional Practice- II (Employability Skills & Professional Development of Engineers)	HSS	0	0	1	1
		Total Number of Credits					24
		Total number of Hours / Week		19	2	10	

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.	18IM72	Product Design and Development	IM	4	0	1	5
3.	18IM73	Foundations of Robotics and Automation	IM	3	0	1	4
4.	18IM7FX	Elective F (PE)	IM	3	0	0	3
5.	18IM7GX	Elective G(PE)	IM	3	0	0	3
6.	18G7H09	Elective H (GE)*	Respective BoS	3	0	0	3
Total Number of Credits				19	0	2	21
Total number of Hours/Week				19	0	5	

Note:**Students should take other department Global Elective courses.

EIGHT SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18IMP81	Major Project	IM	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week						32	