

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

I SEMESTER: CHEMISTRY CYCLE (CV STREAM) CV

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	22MA11D	Applied Mathematics – I	MA	3	1	0	4	Theory	1.5	100	***	3	100	***
2	22CHY12B	Engineering And Environmental Chemistry	CHY	2	1	1	4	Theory+Lab	1.5	100	***	3	100	***
3	22MECD13	Computer Aided Engineering Graphics	ME	1	0	2	3	Lab	1.5	***	50	3	***	50
4	22ES14X	Engineering Science Course - I	XX	3	0	0	3	Theory	1.5	100	***	3	100	***
5	22PL15X	Programming Languages Course	XX	2	0	1	3	Theory+Lab	1.5	100	***	3	100	***
6	22HSE16	Communicative English-I	HSS	0	0	1	1	Lab	1	***	50	2	***	50
7	22HSI17	Fundamentals of Indian Constitution	HSS	1	0	0	1	Theory	1	50	***	2	50	***
8	22HSY18	Scientific Foundations of Health-Yoga Practice	HSS	0	0	1	1	Lab	1	***	50	2	***	50
				12	2	6	20							

II SEMESTER: PHYSICS CYCLE (CV STREAM) CV

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	22MA21D	Applied Mathematics – II	MA	3	1	0	4	Theory	1.5	100	***	3	100	***
2	22PHY22C	Quantum Physics for Engineers	PHY	2	1	1	4	Theory+Lab	1.5	100	***	3	100	***
3	22CV23	Engineering Mechanics	CV	3	0	0	3	Theory	1.5	100	***	3	100	***
4	22ES24X	Engineering Science Course-II	XX	3	0	0	3	Theory	1.5	100	***	3	100	***
5	22EM2XX	Emerging Technology Course	XX	3	0	0	3	Theory	1	100	***	3	100	***
6	22HSE26	Communicative English-II	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	22ME28	IDEA LAB (Idea Development, Evaluation & Application)	ME	0	0	1	1	Lab	2	***	50	2	***	50
				15	2	3	20							

III SEMESTER									
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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	21BT32	Environmental Technology	2	0	0	2	BT	Theory	1	50	****	2	50	****
3	21CV33	Mechanics of Materials	3	0	1	4	CV	Theory+Lab	1.5	100	50	3	100	50
4	21CV34	Surveying	2	0	2	4	CV	Theory+Lab	1	50	50	3	50	50
5	21CV35	Concrete Technology	3	0	1	4	CV	Theory+Lab	1.5	100	50	3	100	50
6	21CV36	Python Programming	2	0	0	2	CV	Theory	1.5	50	****	2	50	****
7	21DMA37	Bridge Course: Mathematics	2(A)	0	0	AUDIT	MA	Theory	1.5	50	****	****	****	****
8	21CV39	Design Thinking Lab	0	0	2	2	CV	Lab	1	****	50	2	****	50
9	21CVI310	Summer Internship- I	0	0	1	1	CV	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	21CV42 **	Civil Engineering Materials	2	0	0	2	CV	Theory	1	50	****	2	50	****
3	21CV43	Mechanics of Fluids	3	0	1	4	CV	Theory+Lab	1.5	100	50	3	100	50
4	21CV44	Building Planning & Drawing	3	0	1	4	CV	Theory+Lab	1.5	100	50	3	100	50
5	21CV45	Structural analysis	3	1	0	4	CV	Theory	1.5	100	****	3	100	****
6	21CV4AX	Professional Core Elective – Group A	2	0	0	2	CV	MOOC	1.5	50	****	2	50	****
7	21HS46A / 21HS46V	Kannada Course: AADALITHA KANNADA / VYAVAHARIKA 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	****	****	****	****
9	21HSU48	Universal Human Values and Professional Ethics	2	0	0	2	HSS	Theory	1	50	****	2	50	****

FIFTH SEMESTER CREDIT SCHEME							
Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18HEM51	Introduction to Management and Economics	HSS	3	0	0	3
2.	18CV52	Structural Analysis II	CV	3	1	0	4
3.	18CV53	Design and Drawing of RCC Structures	CV	3	0	1	4
4.	18CV54	Highway Engineering	CV	3	0	1	4
5.	18CV55	Hydrology and Irrigation Engineering	CV	3	0	0	3
6.	18CV5AX	Group A: Professional electives (MOOC Courses)	CV	3	0	0	3
7.	18G5BXX	Group B:Global Elective	Respective BoS	3	0	0	3
Total Number of Credits							24
Total number of Hours/Week				21	2	5	28

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.	18CV62	Design and Drawing of Steel Structures	CV	3	0	1	4
3.	18CV63	Waste Water Engineering	CV	3	0	1	4
4.	18CV64	Estimation and Costing	CV	3	0	0	3
5.	18CV6CX	Elective C: Professional Electives	CV	3	0	0	3
6.	18CV6DX	Elective D: Professional Electives	CV	3	0	0	3
7.	18G6EXX	Elective E: Global Elective	Respective 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**	27

SEVENTH SEMESTER CREDIT SCHEME

Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
31.	18HS71	Constitution of India and Professional Ethics	HSS	3	0	0	3
32.	18CV72	Geotechnical Engineering	CV	3	1	1	5
33.	18CV73	Extensive Survey project	CV	0	0	4	4
34.	18CV74	Internship*	CV	0	0	2	2
35.	18CV7FX	Elective F (PE)	CV	3	0	0	3
36.	18CV7GX	Elective G (PE)	CV	3	0	0	3
37.	18G7HXX	Elective H (OE)	Res. BOS	3	0	0	3
Total Number of Credits				15	1	7	23
Total number of Hours/Week				15	2	11.5	

Note:

* Internship to be carried out by students during 6th Semester vacation and evaluation is done during 7th Semester.

EIGHT SEMESTER CREDIT SCHEME

Sl. No.	Course Code	Course Title	BoS	Credit Allocation			Total Credits
				L	T	P	
1.	18CVP81	Major Project	CV	0	0	16	16
Total Number of Credits				0	0	16	16
Total number of Hours/Week						32	