

SDM College of Engineering and Technology
Department of Chemical Engineering
Scheme 2021-22

Scheme for III Semester

Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UMAC300	BS	Engineering Mathematics – III	3-0-0	3	50	100	3	-	-
18UCHC300	PC	Chemical Process Calculations	4-0-0	4	50	100	3	-	-
18UCHC301	PC	Technical Chemistry**	3-0-0	3	50	100	3	-	-
18UCHC302	PC	Fluid Mechanics	4-0-0	4	50	100	3	-	-
18UCHC303	PC	Particulate Technology	4-0-0	4	50	100	3	-	-
18UCHC304	PC	Chemical Engineering Drawing	2-0-2	3	50	100	3	-	-
18UCHL305	PC	Particulate Technology Laboratory	0-0-3	1.5	50	-	-	50	3
18UCHL306	PC	Technical Analysis Laboratory	0-0-3	1.5	50	-	-	50	3
Total			20-0-8	24	400	600		100	

Scheme for IV Semester

Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UMAC400	BS	Engineering Mathematics – IV	3-0-0	3	50	100	3	-	-
18UCHC400	PC	Process Heat Transfer	4-0-0	4	50	100	3	-	-
18UCHC401	PC	Chemical Reaction Engineering-I	4-0-0	4	50	100	3		
18UCHC402	PC	Chemical Engineering Thermodynamics	3-2-0	4	50	100	3	-	-
18UCHC403	PC	Pollution Control Engineering	3-0-0	3	50	100	3	-	-
18UCHC404	PC	Energy Technology and Management	3-0-0	3	50	100	3	-	-
18UCHL405	PC	Computational Methods & Simulation Laboratory	0-0-3	1.5	50	-	-	50	3
18UCHL406	PC	Fluid Mechanics Laboratory	0-0-3	1.5	50	-	-	50	3
18UCHL407	PC	Introductory Project	0-0-2	1	50	-	-	-	-
Total			20-2-8	25	450	600		100	

Scheme for V Semester

Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UHUC500	HU	Management, Entrepreneurship and IPR	4-0-0	4	50	100	3	-	-
18UCHC500	PC	Chemical Reaction Engineering-II	4-0-0	4	50	100	3	-	-
18UCHC501	PC	Mass Transfer – I	3-2-0	4	50	100	3	-	-
18UCHC502	PC	Chemical Equipment Design-I	3-0-0	3	50	100	3	-	-
18UCHC503	PC	Chemical Process Integration	3-0-0	3	50	100	3	-	-
18UCHE50X	PE	Program Elective – 1	3-0-0	3	50	100	3	-	-
18UCHL504	PC	Heat Transfer Laboratory	0-0-3	1.5	50	-	-	50	3
18UCHL505	PC	Environmental Engineering Laboratory	0-0-3	1.5	50	-	-	50	3
18UCHL506	PC	Minor Project-1	0-0-2	1	50	-	-	-	-
18UHUL507	HU	Soft Skills/Aptitude	0-0-2	1	50	-	-	-	-
Total			20-2-10	26	500	600		100	
Electives									
18UCHE508	PE	Petroleum and Petrochemicals	3-0-0	3	50	100	3	-	-
18UCHE509	PE	Polymer Science and Technology	3-0-0	3	50	100	3	-	-
18UCHE510	PE	Air Pollution and Control Engineering	3-0-0	3	50	100	3	-	-

Scheme for VI Semester

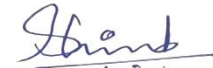
Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UCHC600	PC	Mass Transfer – II	4-0-0	4	50	100	3	-	-
18UCHC601	PC	Chemical Equipment Design-II	4-0-0	4	50	100	3	-	-
18UCHE60X	PE	Program Elective – 2	3-0-0	3	50	100	3	-	-
18UCHE60X	PE	Program Elective – 3	3-0-0	3	50	100	3	-	-
18UCHO60X	OE	Open Elective	3-0-0	3	50	100	3	-	-
18UHL602	PC	Mass Transfer Laboratory	0-0-3	1.5	50	-	-	50	3
18UHL603	PC	Chemical Reaction Engineering Laboratory	0-0-3	1.5	50	-	-	50	3
18UHL604	PC	Minor Project– 2	0-0-4	2	50	-	-	50	3
18UHUL605	HU	Soft Skills/Aptitude	0-0-2	1	50	-	-	-	-
Total			17-0-12	23	450	500		150	
Electives									
18UCHE606	PE	Transport Phenomena	3-0-0	3	50	100	3	-	-
18UCHE607	PE	Catalyst Technology	3-0-0	3	50	100	3	-	-
18UCHE608	PE	Plant utilities and Industrial Safety	3-0-0	3	50	100	3	-	-
18UCHE609	PE	Drug and Pharmaceutical Technology	3-0-0	3	50	100	3	-	-
18UCHE610	PE	Food Engineering	3-0-0	3	50	100	3	-	-
18UCHE611	PE	Applied Mathematics in Chemical Engineering	3-0-0	3	50	100	3	-	-
18UCHO612	OE	Advanced Waste Water Treatment	3-0-0	3	50	100	3	-	-
18UCHO613	OE	Biology for Engineers	3-0-0	3	50	100	3	-	-
18UCHO614	OE	Composite Materials	3-0-0	3	50	100	3	-	-

Scheme for VII Semester B. E

Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UCHC700	PC	Process Dynamics and Control	3-2-0	4	50	100	3	-	-
18UCHC701	PC	Chemical Technology	4-0-0	4	50	100	3	-	-
18UCHE70X	PE	Program Elective -4	3-0-0	3	50	100	3	-	-
18UCHO70X	OE	Open elective	3-0-0	3	50	100	3	-	-
18UCHL702	PC	Process Control Laboratory	0-0-2	1	50	-	-	50	3
18UCHL703	PC	Major Project – 1	0-0-4	2	50	-	-	50	3
18UCHL704	PC	Internship	4 Weeks	2	50	-	-	50	3
Total			13-2-6	19	350	400		150	
Electives									
18UCHE705	PE	Novel Separation Techniques	3-0-0	3	50	100	3	-	-
18UCHE706	PE	Process Instrumentation	3-0-0	3	50	100	3	-	-
18UCHE707	PE	Process Modeling and Simulation in Chemical Engineering	3-0-0	3	50	100	3		
18UCHO708	OE	Biochemical Engineering	3-0-0	3	50	100	3	-	-
18UCHO709	OE	Instrumental Methods of Analysis	3-0-0	3	50	100	3	-	-
18UCHO710	OE	Nanotechnology	3-0-0	3	50	100	3	-	-

Scheme for VIII Semester B. E

Course Code	Course category	Course Title	Teaching		Examination				
			L-T-P (Hrs/Week)	Course Credit	CIE	Theory (SEE)*		Practical (SEE)	
					Max Marks	Max Marks	Duration in Hrs	Max Marks	Duration in Hrs
18UCHC800	PC	Process Engineering Economics and Management	4-0-0	4	50	100	3	-	-
18UCHE80X	PE	Program Elective -5	3-0-0	3	50	100	3	-	-
18UCHO80X	OE	Open elective	3-0-0	3	50	100	3	-	-
18UCL801	PC	Technical Seminar	0-0-2	1	50	-	-	-	-
18UCL802	PC	Major Project –2	0-0-12	7	50	-	-	50	3
Total			10-0-16	18	250	300		50	
Electives									
18UCHE803	PE	Sugar Technology	3-0-0	3	50	100	3	-	-
18UCHE804	PE	Advance Bioprocess Engineering	3-0-0	3	50	100	3	-	-
18UCHE805	PE	Scale up in Chemical Process	3-0-0	3	50	100	3	-	-
18UCHO806	OE	Solid Waste Management	3-0-0	3	50	100	3	-	-
18UCHO807	OE	Green Technology	3-0-0	3	50	100	3	-	-
18UCHO808	OE	Environmental Impact Assessment	3-0-0	3	50	100	3	-	-



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