SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING III SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	8		amination			
				Theory	Pract.	Duration		Marks	
						(Hrs)	I.A	Theory/Pract.	Total
1	10MAT	Engg. Mathematics – III	Maths	04		03	25	100	125
	31								
2	10CH32	Momentum Transfer	Chem. Engg.	04		03	25	100	125
3	10CH33	Chemical Process	Chem. Engg.	04		03	25	100	125
		Calculations							
4	10CH34	Technical Chemistry	Chemistry	04		03	25	100	125
5	10CH35	Mechanical Operations	Chem. Engg.	04		03	25	100	125
6	10CH36	Comp. Aided Chemical	Chem. Engg.		03	03	25	100	125
		Equipment Drawing							
7	10CHL37	Momentum Transfer Lab	Chem. Engg.		03	03	25	50	75
8	10CHL38	Technical Chemistry	Chemistry		03	03	25	50	75
		Lab - I							
		Total	•	20	09	24	200	700	900

SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING IV SEMESTER

Sl. No.			Examination						
				Theory	Pract.	Duration		Marks	
				-		(Hrs)	I.A	Theory/Pract.	Total
1	10MAT	Engg. Mathematics – IV	Maths	04		03	25	100	125
	41								
2	10CH42	Material Science	Chem. Engg.	04		03	25	100	125
3	10CH43	Chemical Engg.	Chem. Engg.	04		03	25	100	125
		Thermodynamics							
4	10CH44	Process Heat Transfer	Chem. Engg.	04		03	25	100	125
5	10CH45	Computational Methods	Chem. Engg.	04		03	25	100	125
6	10CH46	Instrumental Methods of	Chem. Engg.	04		03	25	100	125
		Chemical Analysis	/ Chemistry						
7	10CHL47	Mechanical Operations	Chem. Engg.		03	03	25	50	75
		Lab							
8	10CHL48	Technical Chemistry	Chemistyr		03	03	25	50	75
		Lab - II							
		Total	-	24	06	24	200	700	900

SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING V SEMESTER

Sl.	Subject	Title of the Subject	Teaching	Teach	ing hou	rs/week		Examination	
No.	Code		Dept.	Theory	Pract.	Duration		Marks	
						(Hrs)	I.A	Theory/Pract.	Total
1	10AL51	Management &	@	04		03	25	100	125
		Entrepreneurship							
2	10CH52	Chemical Process	Chem. Engg.	04		03	25	100	125
		Industries							
3	10CH53	Mass Transfer – I	Chem. Engg.	04		03	25	100	125
4	10CH54	Chemical Reaction Engg.	Chem. Engg.	04		03	25	100	125
		- I							
5	10CH55	Pollution Prevention &	Chem. Engg.	04		03	25	100	125
		Control Engg.							
6	10CH56	Chemical Equipment	Chem. Engg.	04		03	25	100	125
		Design							
7	10CHL57	Pollution Control &	Chem. Engg.		03	04	25	50	75
		Instrumental Analysis							
		Lab							
8	10CHL58	Heat Transfer Lab	Chem. Engg.		03	04	25	50	75
		Total		24	06		200	700	900

Note: @ indicates that teaching department can be any Engineering Department/Department of Management Studies

SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING VI SEMESTER

Sl. No.	Subject Code	Title of the Subject	tle of the Subject Teaching Teaching Dept. Teaching hrs./week			Examination			
				Theory	Pract.	Duration		Marks	
						(Hrs)	I.A	Theory/	Total
								Pract.	
1	10CH61	Chemical Plant Utilities	Chem. Engg.	04		03	25	100	125
		& Safety							
2	10CH62	Mass Transfer – II	Chem. Engg.	04		03	25	100	125
3	10CH63	Chemical Reaction Engg.	Chem. Engg.	04		03	25	100	125
		– II							
4	10CH64	Energy Technology	Chem. Engg.	04		03	25	100	125
5	10CH65	Process Equipment	Chem. Engg.	02	02	04	25	100	125
		Design & Drawing							
6	10CH66x	Elective – I (Group A)	Chem. Engg.	04		03	25	100	125
7	10CHL67	Chemical Reaction Engg.	Chem. Engg.		03	04	25	50	75
		Lab							
8	10CHL68	Mass Transfer Lab	Chem. Engg.		03	04	25	50	75
		Total		22	08	27	200	700	900

Elect	Elective – I (Group A)						
Sl.	Subject Code	Title of the Subject					
No.	Code						
1	10CH661	Petroleum Refinery Engg.					
2	10CH663	Operations Research					
3	10CH662	Pharmaceutical Technology					
4	10CH664	Polymer Technology					

SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING VII SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teach hrs./v	0	Examination			
110.	Couc		Бері.	Theory	Pract.	Duration		Marks	
				3		(Hrs)	I.A	Theory/ Pract.	Total
1	10CH71	Chemical Process Integration	Chem. Engg	04		03	25	100	125
2	10CH72	Instrumentation & Process Control	Chem. Engg	04		03	25	100	125
3	10CH73	Computer Applications & Modeling	Chem. Engg	04		03	25	100	125
4	10CH74	Bio Chemical Engineering	Chem. Engg	04		03	25	100	125
5	10CH75x	Elective – II (Group B)	Chem. Engg	04		03	25	100	125
6	10CH76x	Elective – III (Group C)	Chem. Engg	04		03	25	100	125
7	10CHL77	Process Control Lab	Chem. Engg		03	04	25	50	75
8	10CHL78	Computer Applications & Simulation Lab	Chem. Engg		03	04	25	50	75
		Total		24	06		200	700	900

Elec	Elective – II (Group B)							
Sl.	Subject	Title of the Subject						
No.	Code							
1	10CH751	Food Technology						
2	10CH752	Multi Component Distillation						
3	10CH753	Electrochemical Technology						
4	10CH754	Interfacial Phenomenon & Surface						
		Engg.						

Electi	Elective – III (Group C)							
Sl.	Subject	Title of the Subject						
No.	Code							
1	10CH761	Applied Mathematics in Chemical						
		Engg.						
2	10CH762	Sugar Technology						
3	10CH763	Petrochemicals						
4	10CH764	Oils and Fats						

SCHEME OF TEACHING AND EXAMINATION B.E. CHEMICAL ENGINEERING VIII SEMESTER

Sl. No					Examination				
				Theory	Pract.	Duration		Marks	
						(Hrs)	I.A	Theory/	Total
								Pract.	
1	10CH81	Process Engineering	СН	04		03	25	100	125
		Economics							
2	10CH82	Transport Phenomena	СН	04		03	25	100	125
3	10CH83x	Elective D	СН	04		03	25	100	125
4	10CH84x	Elective E	СН	04		03	25	100	125
5	10CH85	Project	СН		09	03	100	100	200
6	10CH86	Seminar	СН		06		50		50
7	10CH87	In-plant Training/					50		50
		Industrial Visit							
		Total	·	16	15		300	500	800

Elect	Elective – IV (Group D)							
Sl.	Subject	Title of the Subject						
No.	Code							
1	10CH831	Nanotechnology Applications in						
		Chemical Engineering						
2	10CH832	Advanced Bio Process Engineering						
3	10CH833	Novel Separation Techniques						
4	10CH834	Composite Materials						

Elect	Elective – V (Group E)						
Sl.	I. Subject Title of the Subject						
No.	Code						
1	10CH841	Pilot Plant and Scale up Methods					
2	10CH842	Solid Waste Management					
3	10CH843	Safety and Environmental Audit of Chemical					
		Process Industries					
4	10CH844	Pulp and Paper Technology					