

CHEMICAL ENGINEERING

COURSE CURRICULUM FOR THE NEW PROGRAMME (B.Tech./Dual Degree and 5yr. Int. M.Sc.) w.e.f. 2007 BATCH											
Semester I						Semester – II					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C	MA 106 And MA 108	Linear Algebra and Ordinary Differential Equations I	L	T	P	C
CH 103+	Chemistry	2	1	0	6			3	1	0	8
CS 101	Computer Programming	2	0	2	6	CH 103+	Chemistry	2	1	0	6
HS 101	Economics	3	0	0	6	PH 103*	Electricity and Magnetism	3	0	0	6
MA 105	Calculus	3	1	0	8	PH 105*	Modern Physics	3	1	0	8
PH 103*	Electricity and Magnetism	2	1	0	6	CL 152	Introduction to Chemical Engg.	3	0	0	6
PH 105*	Modern Physics	2	1	0	6	IC 102	Data Analysis and Interpretations	2	1	0	6
CH 117+	Chemistry Lab	0	0	3	3	CH 117*	Chemistry Lab.	0	0	3	3
ME 113*	Workshop Practice	0	1	3	5	ME 113+	Workshop Practice	0	1	3	5
ME 119*	Engineering Graphics and Drawing	1	0	3	5	ME 119+	Engineering Graphics and Drawing	0	1	3	5
PH 117+	Physics Lab	0	0	3	3	PH 117*	Physics Lab.	0	0	3	3
NC 101#	National Cadet Corps (NCC)	0	0	0	P/NP	NC 102#	National Cadet Corps (NCC)	0	0	0	P/NP
NO 101#	National Sports Organization (NSS)	0	0	0	P/NP	NO 102#	National Sports Organization (NSS)	0	0	0	P/NP
NS 101#	National Service Scheme (NSS)	0	0	0	P/NP	NS 102#	National Service Scheme (NSS)	0	0	0	P/NP
* Any one of these two courses and any one of these Lab courses only for D3 D4 + Only for D1 D2 # Any one of these three P/NP courses						* Any one of these two courses and any one of these Lab courses only for D1 D2 + Only for D3 D4 # Any one of these three P/NP courses					

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Sem III						Sem IV					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
CL 231	Solid Mechanics	2	1	0	6	ES 200 And HS 200	EnvironmentalStudies: Science and Engg And EnvironmentalStudies	3	0	0	3
MA 205 And MA 207	ComplexAnalysis And Diff. Eqns II	3	1	0	4	CL 242	Fundamentals of Heat and Mass Transfer	3	0	0	3
		3	1	0	4			2	1	0	6
CL 253	Chemical Engineering Thermodynamics	3	1	0	8	CL 254	Process Fluid Mechanics	2	1	0	6
CL 203	Intro to Transport Phenomena	2	1	0	6	CL 244	Introduction to Numerical Analysis	3	1	0	8
IC 211	Experimentation and Measurements Lab	0	0.5	3	4	CL 232	Chemical Engineering Lab 1	0	0	6	6
					32						32
COURSES FOR HONOURS REQUIREMENT						COURSES FOR HONOURS REQUIREMENT					
						CL 260	Molecular and Statistical Thermodynamics	2	1	0	6
COURSES FOR MINOR REQUIREMENT						COURSES FOR MINOR REQUIREMENT					
CL 152	Introduction to Chemical Engg.	2	1	0	6	CL 253	Chemical Engg. Thermodynamics	3	1	0	8

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Semester V						Semester – VI					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
EE 101	Intro to Electrical and Electronics Circuits	3	1	0	8	CL 324	Chemical Reaction Engineering	3	1	0	8
BT 251	Molecular Cell Biology	2	1	0	6	CL 326	Material Science	3	0	0	6
HS 301/ HS 303/ HS 305/ HS 307	Philosophy/ Psychology/ Literature/ Sociology	3	0	0	6		Institute Elective 1	3	0	0	6
CL 317	Mass Transfer Operations	2	1	0	6		Department Elective 1	3	0	0	6
CL 333	Chemical Engineering Lab II	0	0	0	6	CL 335	Chemical Engineering Lab III	0	0	6	6
					32						32
COURSE FOR HONOURS REQUIREMENT						COURSE FOR HONOURS REQUIREMENT					
CL 336	Advanced Transport Phenomena	3	0	0	6		Honors elective 1	3	0	0	6
COURSE FOR MINOR REQUIREMENT						COURSE FOR MINOR REQUIREMENT					
CL 203	Intro to Transport Phenomena	2	1	0	6						

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Semester VII							Semester – VIII						
Course code	Course Name	Credit Structure					Course Code	Course Name	Credit Structure				
		L	T	P	C				L	T	P	C	
CL 415	Process Equipment Design & Economics	3	0	0	6		CL 408	Chemical Processes	3	0	0	6	
CL 417	Process Control	3	1	0	8		CL 451	Chemical Process Design	3	0	0	6	
	Department Elective II	3	0	0	6								
	Institute Elective II	3	0	0	6		CL 457	Design lab 2	0	0	3	6	
CL 433	Chemical Engineering Lab IV	0	0	6	6			Department Elective III	3	0	0	6	
CL 455	Design lab 1	0	0	3	3			Department Elective IV	3	0	0	6	
					35							30	
COURSE FOR HONOURS REQUIREMENT							COURSE FOR HONOURS REQUIREMENT						
CL 325	Chemical Reaction Engineering II	2	1	0	6			Honors elective II	3	0	0	6	
COURSE FOR MINOR REQUIREMENT							COURSE FOR MINOR REQUIREMENT						
CL 324	Chemical Reaction Engineering	3	1	0	8		CL 417	Process Control	3	1	0	8	

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Semester IX						Semester – X					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
CL 593	DDP I				36	CL 594	DDP II				36
	DD elective I	3	0	0	6		DD elective III	3	0	0	6
	DD elective II	3	0	0	6		DD elective IV	3	0	0	6
COURSE FOR HONOURS REQUIREMENT						COURSE FOR HONOURS REQUIREMENT					
COURSE FOR MINOR REQUIREMENT						COURSE FOR MINOR REQUIREMENT					