

R12		
E1S1		
Course Code	Name of the Course	Credits
MA1101	Mathematics I	4
PH1101, CY1101	Physics (Chemistry)	4
HS1101, ME1101	English for Communication (Mechanics)	3
EE1101, CS1101	Electrical Technology (Programming and Data Structures)	4
ME1102, CE1101	Introduction to Manufacturing process & WSP (Engineering Drawing and Graphics)	3
PH1701, CY1701	Physics Lab (Chemistry Lab)	2
EE1701, CS1701	Electrical Technology Lab (Programming and Data Structures Lab)	2
	Total Credits	22
E1S2		
Course Code	Name of the Course	Credits
MA1202	Mathematics II	4
PH1201, CY1201	Physics (Chemistry)	4
ME1201, HS1201	Engineering Mechanics (English)	3
CS1201, EE1201	Programming & Data Structures (Electrical Technology)	4
CE1201, ME1202	Engineering Drawing and Graphics (Introduction to Manufacturing process & WSP)	3
PH1801, CY1801	Physics Lab (Chemistry Lab)	2
CS1801, EE1801	Programming & Data Structures Lab (Electrical Technology Lab)	2
	Total Credits	22
E2S1		
Course Code	Name of the Course	Credits
CH2001	Fluid Mechanics	4

CH2003	Chemical Process Calculations	4
MA2002	Numerical Solutions of ordinary and partial differential equations	4
CH1201	Basic Thermodynamics	4
EC2101	Basic Electronics	4
CH2901	Fluid Mechanics Lab	2
	Total Credits	22
E2S2		
Course Code	Name of the Course	Credits
CH2002	Heat Transfer	4
MA2004	Transform Calculus	4
CH2004	Chemical Technology	4
CH2005	Chemical Engineering Thermodynamics	4
CH2006	Advanced Experimental (analatical) methods in Chemical Engin	4
CH2902	Introduction to Software Tools Lab	2
	Presentation skills	2
	Total Credits	24
E2 Summer Sem		
Course Code	Name of the Course	Credits
	Foundation of Management	2
	Skill Development	2
	Total Credits	4
E3S1		
Course Code	Name of the Course	Credits
CH3001	Mass Transfer Operations-I	4
CH3005	Introduction to Reaction Engineering	4
CH3003	Mechanical Unit operations	4
CH3007	Instrumentation and Process Control	4
CH3901	Mechanical Unit Operations Lab	2
CH3901	Heat Transfer Lab	2
	Total Credits	20
E3S2		
Course Code	Name of the Course	Credits
CH3002	Mass Transfer II	4
CH3004	Chemical Reaction Engineering	4

CH3006	Process Equipment Design	4
	Management Subject	4
CH3903	Instrumentation and Process Control Lab	2
CH3906	Process Equipment Design	2
CH3902	Reaction Engineering Lab	2
	Total Credits	22
E3 Summer Sem		
Course Code	Name of the Course	Credits
CH3301	Summer internship	8
	Total Credits	8
E4S1		
Course Code	Name of the Course	Credits
CH4003	Transport Phenomena	4
CH6203	Process Modeling and Simulation	4
CH3008	Plant Design and Economics	4
CH4700	Project	8
	Process Modeling and Simulation Lab	2
CH3901	Mass Transfer Lab	2
	Total Credits	24
E4S2		
Course Code	Name of the Course	Credits
CH6202	Biochemical Engineering	4
	Elective	4
	Free Elective	4
CH4800	Project	8
	Comprehensive Viva	2
	Total Credits	22

Grand Total Credits 190