

2016 Batch onwards

	SEMESTER-I	
MA1110	Calculus-I	1
MA1220	Calculus- II	2
PH1017	Classical Physics	1
PH1031	Physics Lab	2
ID1035	Independent Project	1
ID1054	Digital Fabrication (CAD+3D)	2
ID1171	Fabrication Lab 1	2
CH1010	Material & Energy Balance	2
CH1030	Fluid Mechanics	2
CH1050	Introduction to Mass Transfer	1
	Total	16

	SEMESTER-II	
PH1027	Electromagnetism and Maxwell's Equations	1
MA1130	Vector Calculus	1
CY1027	Dynamics of Chemical Systems-I	1
MA1140	Linear Algebra	1
MA1150	Differential Equations	1
CH1020	Introduction to thermodynamics	2
CH1040	Chemical Reaction Engineering-I	2
CH1060	Heat Transfer	2
CH1080	Separations Process - I	2
CH1021	Chemical Engineering Lab	1
	LA/CA	1
	Total	15

	SEMESTER-III	
MA2120	Transforms	1
CY1017	Environmental Chemistry-I	1
CY1031	CY Lab	2
CY1030	Environmental Chemistry-II	2
ID1041	Engineering Drawing	2
ID1060	Introduction to Programming	1
ID1061	Introduction to Programming Lab	1
CH2010	Mechanical Operations	2
CH2030	Numerical Methods-I	2
CH2011	Applied Chemistry Lab	1
	Biological Processes (Core elective) (Select 3 credit from the basket)	3
	Total	18

	SEMESTER-IV	
MA2130	Complex Variables	1
CH2020	Basic Control Theory	1
CH2040	Heat Transfer Equipment & Design	2

CH2060	Numerical Methods-II	1
CH2080	Chemical Reaction Engineering -II	2
CH2100	Heterogeneous Reaction Engineering	1
CH2120	Fluid Mechanics Lab	1
CH2021	Mechanical Operations Lab	1
	Energy & Environment (Core elective) (Select 3 credit from the basket)	3
	LA-1/CA-1	2
	Total	15

	SEMESTER-V	
CH3010	Separation Process II	2
CH3030	Transport Phenomena-I	2
CH3050	Control Design and Analysis	2
CH3070	Chemical Engineering thermodynamics-I	2
CH3090	Chemical Engineering thermodynamics-II	1
CH3011	HT Lab	1
CH3031	MT Lab	1
	Materials (Core elective) (Select 3 credit from the Basket)	3
	LA-2/CA-2	2
	Total	16
	Honours	3
	Minor	3

	SEMESTER-VI	
CH3020	Transport Phenomena-II	1
CH3022	Mass Transfer Equipment Design	1
CH3042	Plant Design -I	2
CH3021	Reaction Engineering Lab	1
CH3041	Process Control Lab	1
	Chemical Processes (Core elective) (Select 3 credit from the Basket)	3
	LA-3/CA-3	2
	Total	11
	Honours	3
	Minor	3

	SEMESTER-VII	
CH4012	Plant Design-II	1
CH4011	Process Simulation Lab	2
	Department Electives I	6
	LA-4/CA-4	2
	Total	11
	Honours	3
	Minor	3

	SEMESTER-VIII	
CH4020	Optimization	2
	Department Electives II	5
	LA-5/CA-5	2
	Professional Ethics	1

	Total	10
	Honours	3
	Minor	3

13 credits of free electives (can be taken in any semester)