

School Name: School of Engineering
Department Name: Mechanical Engineering
Programme Name: B. Tech in Chemical Engineering
Scheme: 2015-2019

SEMESTER I						
Sl. No	Course Code	Course Title	L	T	P	C
1	LLL111	Basic English	0	0	4	2
2	MAT111	Matrices & Multivariable Calculus	3	1	0	4
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics Lab I	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Chemistry Lab I	0	0		1
7	HUM201	Psychology & Sociology	2	0	0	2
8	CSE 101	Basic Electrical and Electronics Engineering / Computer Programming and Problem Solving	3	0	0	3
9	CSE 151	Computer Programming and Problem Solving Lab	0	0	2	1
10	LLL101	Universal Human Values & Ethics	3	0	0	3
11	MEE152	Workshop Practice	0	0	2	1
Total credits						24

SEMESTER III						
Sl. No	Course Code	Course Title	L	T	P	C
1	LLL121	English Proficiency	0	0	4	2
2	MAT121	Ordinary Differential Equations And Integral Transforms	3	1	0	4
3	PHY121	Condensed Matter Physics	3	0	0	3
4	PHY 141	Physics Lab II	0	0	2	1
5	CHY123	Organic Chemistry	3	0	0	3
6	CHY 141	Chemistry –II Lab	0	0	2	1
7	FRE101	French	2	0	0	2
8	EEE101	Basic Electrical and Electronics Engineering / Computer Programming and Problem Solving	3	0	0	3
9	EEE151	Basic Electrical and Electronics Engineering Lab / Computer Programming and Problem Solving Lab	0	0	2	1
10	EVS 102	Environmental Science & Energy/	3	0	0	3
11	MEE151	Engineering Graphics or	0	0	4	2
			0	0	2	1
Total credits						

SEMESTER III

Sl. No	Course Code	Course Title	L	T	P	C
1	LLL111	Basic English	0	0	4	2
2	MAT111	Matrices & Multivariable Calculus	3	1	0	4
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics Lab I	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Chemistry Lab I	0	0	2	1
7	HUM201	Psychology & Sociology	2	0	0	2
8	CSE 101	Basic Electrical and Electronics Engineering / Computer Programming and Problem Solving	3	0	0	3
9	CSE 151	Computer Programming and Problem Solving Lab	0	0	2	1
10	LLL101	Universal Human Values & Ethics	3	0	0	3
11	MEE152	Workshop Practice	0	0	2	1
Total credits						24

SEMESTER IV

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL121	English Proficiency	0	0	4	2
2	MAT121	Ordinary Differential Equations And Integral Transforms	3	1	0	4
3	PHY121	Condensed Matter Physics	3	0	0	3
4	PHY 141	Physics Lab II	0	0	2	1
5	CHY123	Organic Chemistry	3	0	0	3
6	CHY 141	Chemistry –II Lab	0	0	2	1
7	FRE101	French	2	0	0	2
8	EEE101	Basic Electrical and Electronics Engineering / Computer Programming and Problem Solving	3	0	0	3
9	EEE151	Basic Electrical and Electronics Engineering Lab / Computer Programming and Problem Solving Lab	0	0	2	1
10	EVS 102	Environmental Science & Energy/	3	0	0	3
11	MEE151	Engineering Graphics or	0	0	4	2
Total credits						25

SEMESTER V

Sl. No.	Course code	Course Name	Credit Structure			
			L	T	P	C
1	LLL211	Professional Communication	0	0	4	2

2	MAT211	Partial Differential Equations and Complex Analysis	3	1	0	4
3	HUM201	Psychology & Sociology	2	0	0	2
4	EVS102	Energy and Environmental Studies	3	0	0	3
5	CHE211	Fluid Mechanics	3	0	0	3
6	CHE212	Mechanical Operations	3	0	0	3
7	CHE213	Material Science	3	0	0	3
8	CHE214	Fuels and Combustion	3	0	0	3
	CHE251	Chemical Engineering Laboratory- I (FM & MO)	0	0	2	1
		Total	20	1	6	24

SEMESTER VI						
Sl. No.	Course Code	Course Name	Credit Structure			
			L	T	P	C
1	LLL222	English Proficiency and Aptitude Building-III	0	0	4	2
2	MAT221	Numerical Methods	3	0	0	3
3	CHE221	Mass Transfer – I	3	0	0	3
4	CHE222	Plant Utilities	3	0	0	3
5	CHE223	Heat Transfer	3	0	0	3
6	CHE224	Strength of Materials	3	0	0	3
7	CHE225	Organic Chemistry	3	0	0	3
8	CHE241	Chemical Engineering Laboratory - II (MO)	0	0	2	1
9	CHE242	Chemical Engineering Laboratory - III (HT)	0	0	2	1
10	MAT241	Numerical Methods Laboratory	0	0	2	1
		Total	18	0	8	22

SEMESTER VII						
Sl. No.	Course Code	Course Name	Credit Structure			
			L	T	P	C
1	LLL311	Aptitude Building-2	0	0	4	2
2	CHE324	Petroleum Refining Engineering	3	0	0	3
3	MAT 311	Probability and Statistics	3	0	0	3
4	CHE311	Chemical Engineering Thermodynamics	3	0	0	3
5	CHE312	Mass Transfer – II	3	0	0	3
6	CHE313	Chemical Reaction Engineering-I	3	0	0	3
7	CHE314	Process Equipment Design	3	0	0	3
8	CHE 375	Elective – I (Pulp & Paper Technology)	3	0	0	3
9	CHE351	Chemical Engineering Laboratory-III (PED)	0	0	2	1
10	CHE355	Technical Proficiency in Chemical Engineering-I	0	0	2	1
		Total	21	0	8	25

SEMESTER VIII						
Sl. No.	Course Code	Course Name	Credit Structure			
			L	T	P	C
1	LLL322	Campus-to-Corporate	0	0	4	2
2	CHE321	Chemical Reaction Engineering -II	3	0	0	3
3	CHE322	Transport Phenomena	3	0	0	3
4	CHE323	Instrumentation & Process Control	3	0	0	3
5	MGT302	Industrial Economics and Management	3	0	0	3
6	CHE561	Envirnmental Pollution Control Engineering	3	0	0	3
7	CHE365	Well Drilling Equipments and Operations	3	0	0	3
8	CHE 214	Fuel & Combustion	3	0	0	3
9	CHE341	Chemical Engineering Laboratory-IV	0	0	2	1
10	CHE342	Chemical Engineering Laboratory-V	0	0	2	1
11	CHE345	Technical Proficiency in Chemical Engineering-II	0	0	2	1
		Total	21	0	5	26