FIRST YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Basic Chemical Engineering	2	0	50+00
Engineering Drawing & Graphics	2	2	50+100
Functional English	2	0	50+00
Islamic Studies / Ethics	2	0	50+00
Pakistan Studies	2	0	50+00
Linear Algebra & Analytical Geometry	3	0	100+00
Workshop Practice	0	2	00+100
Total	**13**	**04**	**350+200**

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Applied Calculus	3	0	100+00
Basic Electrical Technology	3	1	100+50
Engineering Mechanics	3	0	100+00
Chemical Process Technology	3	0	100+00
Inorganic and Organic Chemistry	3	0	100+00
Communication Skills	0	1	00+50
Total	**15**	**2**	**500+100**

SECOND YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Chemical Engineering Thermodynamics-I	3	1	100+50
Chemical Process Calculations-I	2	0	50+00
Chemical Engineering Economics	2	0	50+00
Engineering Materials	2	0	50+00
Physical & Analytical Chemistry	3	0	100+00
Differential Equations and Fourier Series	3	0	100+00
Total	**15**	**1**	**450+50**

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Chemical Engineering Fluid Mechanics-I	3	0	100+00
Chemical Engineering Thermodynamics-II	3	0	100+00
Chemical Process Calculations-II	3	0	100+00
Heat Transfer Operations	3	1	100+50
Complex Variable and Laplace Transform	3	0	100+00
Total	**15**	**1**	**500+50**

THIRD YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Chemical Engineering Fluid Mechanics-II	3	1	100+50
Mass Transfer	3	1	100+50
Maintenance Engineering & Risk Management	2	0	50+00
Particulate Technology	3	1	100+50
Intro to Computers and C++ Programming	3	1	100+50
Total	**14**	**4**	**450+200**

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Chemical Engineering Kinetics	3	0	100+00
Chemical Engineering Plant Design	3	0	100+00
Fuel and Energy	3	1	100+50
Simultaneous Heat & Mass Transfer	3	1	100+50
Numerical Analysis and Computer Applications	3	1	100+50
Total	**15**	**3**	**500+150**

FINAL YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Biochemical Engineering	2	1	50+50
Instrumentation& Process Control	2	1	50+50
Petroleum Refinery Engineering	3	0	100+00
Pollution Control Engineering	2	1	50+50
Transport Phenomena	3	0	100+00
Thesis / Project-I	0	3	00+100
Total	**12**	**6**	**350+200**

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Chemical Process Design & Simulation	2	1	100+50
Industrial Management	2	0	50+00
Nuclear Engineering	2	0	50+00
Petrochemicals	2	0	50+00
Entrepreneurship	2	0	50+00
Thesis/ Project	0	3	00+100
Total	**10**	**4**	**300+150**