



# SCHEME OF STUDIES

## (Batch-2023)

First Year			
Fall Semester			Spring Semester
Course code	Course title	Course code	Course title
<b>CH-104</b>	Chemical Engineering Principles	<b>CH-106</b>	Applied Chemistry
<b>ME-101</b>	Engineering Mechanics	<b>CH-107</b>	Chemical Engineering Thermodynamics I
<b>ME-104</b>	Workshop Practice	<b>ME-111</b>	Engineering Drawing
<b>EA-104</b>	Functional English	<b>EE-118</b>	Basic Electricity & Electronics
<b>PH-122</b>	Applied Physics	<b>MT-114</b>	Calculus
-	-	<b>ES-105</b>	Pakistan Studies OR
-	-	<b>ES-127</b>	Pakistan Studies (for Foreigners)

Second Year			
Fall Semester			Spring Semester
Course code	Course title	Course code	Course title
<b>CH-208</b>	Analytical Chemistry	<b>CH-213</b>	Chemical Process Industries
<b>CH-210</b>	Chemical Engineering Thermodynamics II	<b>ME-209</b>	Materials & Metallurgy
<b>CH-209</b>	Fluid Mechanics-I	<b>CH-211</b>	Fluid Mechanics-II
<b>MM-205</b>	Mechanics of Materials	<b>MT-223</b>	Differential Equations & Fourier Series
<b>IM-207</b>	Computer Programming & Drafting	<b>ES-205</b>	Islamic Studies OR
-	-	<b>ES-209</b>	Ethical Behavior(for Non-Muslim)
-	-	<b>CH-212</b>	Particulate Technology
		<b>EA-200</b>	Community Service

Third Year			
Fall Semester			Spring Semester
Course code	Course title	Course code	Course title
CH-310	Fuel & Energy	CH-302	Separation Processes
CH-307	Heat Transfer	CH-306	Chemical Process Control
CH-309	Chemical Reaction Engineering	EA-304	Business Communication & Ethics
CH-311	Mass Transfer	MT-331	Probability & Statistics
MT-332	Advanced Calculus & Linear Algebra	PF-303	Applied Economics for Engineers
-	-	EA/ES	Foreign Language-I

Final Year			
Fall Semester			Spring Semester
Course code	Course title	Course code	Course title
CH-401	Process Modeling & Simulation	CH-417	Industrial Safety & Maintenance Management
CH-414	Chemical Plant Design	CH-418	Industrial Organization & Management
CE-427	Introduction to Entrepreneurship & Opportunity Assessment	CH-###	Electives
CH-416	Petroleum Refinery & Petrochemical	CH-404	Chemical Process Optimization
MT-441	Advanced Mathematical Techniques	CH-415	Transport Phenomena
CH-499	Chemical Engineering Project	CH-499	Chemical Engineering Project
EA/ES	Foreign Language-II		

### Elective Course

CH-408	Polymer Technology
CH-410	Water Purification
CH-411	Environmental Pollution Control
CH-412	Biochemical Engg.
CH-413	Gas Engineering