



SCHEME OF STUDIES (Batch-2021)

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

Second Year			
Fall Semester			Spring Semester
Course code	Course title	Course code	Course title
CH-208	Analytical Chemistry	CH-213	Chemical Process Industries
CH-210	Chemical Engineering Thermodynamics II	ME-209	Materials & Metallurgy
CH-209	Fluid Mechanics-I	CH-211	Fluid Mechanics-II
MM-205	Mechanics of Materials	MT-223	Differential Equations & Fourier Series
IM-207	Computer Programming & Drafting	HS-205	Islamic Studies
-	-	HS-209	Ethical Behavior (for Non-Muslims)
-	-	CH-212	Particulate Tech.
		HS-200	Community Services

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