



Established 1997

Curriculum of Bachelor Degree in Chemical Industries Engineering

Study Plan Guidelines for the Bachelor Degree in Chemical Engineering Technology

First Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
30202101	Calculus (1)	3	30202102	Calculus (2)	3
30201101	Physics (1)	3	30201102	Physics (2)	3
30206101	Chemistry (1)	3	ES 0201	Programming for engineers	3
101 ع ح	Computer Skills and Distance Learning	1	101 و ط	National Education and university behavior	3
101 ع ت	Applied Arabic Language	3	102 ز ت	Applied English Language (2)	3
101 ز ت	Applied English Language (1)	3	30206102	Chemistry Laboratory (1)	1
			30201111	Physics Laboratory (1)	1
			ES 0102	Engineering Workshop	1
Total		16	Total		18

Second Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
CHE 0211	Chemical Engineering Principles	3	CHE 0212	Material and Energy Balances	3
30206221	Organic Chemistry	3	CHE 0234	Chem. Eng. Fluid Mechanics	3
30206231	Analytical & Instrumental Chem.	3	CHE 0242	Thermophysical Chemistry	3
30202203	Differential Equations	3	BSE 0306	Numerical Techniques	3
BSE 0205	Engineering Drawings	2	35001101	Military Science	3
BSE 0203	Technical writing and professional ethics	3	30206223	Organic Chemistry Laboratory	1
			30206233	Analytical & Instrumental Chem. Lab.	1
Total		17	Total		17



Established 1997

Curriculum of Bachelor Degree in Chemical Industries Engineering

Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
CHE 0331	Chem. Eng. Fluid Mechanics Lab.	1	CHE 0334	Heat Transfer Processes Lab.	1
CHE 0333	Heat Transfer Processes	3	CHE 0336	Mass Transfer	3
CHE 0341	Chem. Eng. Thermodynamics	3	CHE 0342	Chem. Eng. Thermodynamics Lab	1
CHE 0345	Chemical Reaction Engineering (1)	3	CHE 0346	Chemical Reaction Engineering (2)	3
-	University Elective (1)	3	CHE 0352	Unit Operations	3
IEC 101	Innovation pioneering and creativity	2	BSE 0401	Engineering Economics	3
			-	University Elective (2)	3
Total		15	Total		17

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
CHE 0441	Chemical Reaction Eng. Lab.	1	CHE0454	Separation Processes Laboratory	3
CHE 0453	Separation Processes	3	CHE0462	Process Simulation Laboratory	1
CHE 0451	Unit Operations Laboratory	1	CHE0464	Plant Management	3
CHE 0461	Modeling & Simulation in Chemical Engineering	3	CHE1424	Petroleum Refining	3
CHE 0483	Bioprocess Engineering	3	CHE1426	Chemical Industries Technology (1)	3
CHE 1411	Materials and Corrosion Engineering	3	-	Technical Elective (1)	1
Total		17	Total		14



Established 1997

Curriculum of Bachelor Degree in Chemical Industries Engineering

Summer semester			
Course No.	Course Title	Cr. Hrs.	Conditions and
CHE 0490	Engineering Field Training	3	The student must Pass 115 Cr. Hrs. to conduct field training (<i>Every (280) hours of field training are equivalent to 3 Cr. Hrs.</i>)
Total		3	

Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
CHE 0561	Process Dynamics and Control	3	CHE 0562	Process Dynamics and Control Lab.	1
CHE 0563	Chemical Process Equipment Design	3	CHE 0566	Chemical Plant Design	3
CHE 0591	Graduation Project (1)	1	CHE 0578	Chemical Process Safety Eng	3
CHE 1523	Chemical Industries Technology (2)	3	CHE 0592	Graduation Project (2)	3
CHE 1525	Petroleum Laboratory	1	CHE 1528	Processes & Industrial Technology Laboratory	1
CHE 1571	Water & Wastewater Treatments	3	-	Technical Elective (3)	3
-	Technical Elective (2)	3			
Total		17	Total		14