



University of Basrah
College of Engineering
Department of Chemical Engineering



First Year

First Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	U111	Technical English I	2	-	-	2
2	E112	Mathematics I	3	-	1	3
3	E113	Workshop Technology	-	2	-	1
4	CHE114	Computer Programming I	2	2	-	3
5	CHE115	Analytical Chemistry	2	2	-	3
6	CHE116	Engineering Drawing	-	2	-	1
7	CHE117	Chemical Engineering Principles I	3	-	1	3
8	CHE118	Engineering Mechanics	2	-	-	2
Total			14	8	2	18
			24			

Second Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	U121	Technical English II	2	-	-	2
2	E122	Mathematics II	3	-	1	3
3	E123	Physics	2	-	-	2
4	CHE124	Organic Chemistry	2	2	-	3
5	CHE125	Process flow sheeting	-	2	-	1
6	CHE126	Chemical Engineering Principles II	3	-	1	3
7	CHE127	Strength of Materials	2	-	-	2
Total			14	4	2	16
			20			



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Second Year

First Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut.	
1	U211	Human Rights & Democracy	2	-	-	2
2	E212	Applied Mathematics I	3	-	1	3
3	CHE213	Fluid Mechanics I	3	-	1	3
4	CHE214	Physical Chemistry	2	2	1	3
5	CHE215	Electrical Technologies	2	2	-	3
6	CHE216	Chemical Engineering Energy Balance	2	-	1	2
7	CHE217	Engineering Statistics	2	-	-	2
8	CHE218	Virtual BASIC	2	2	-	3
Total			18	6	4	21
			28			

Second Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut.	
1	E221	Applied Mathematics II	3	-	1	3
2	CHE222	Fluid Mechanics II	3	2	1	4
3	CHE223	Chemical Eng. Thermodynamics I	3	-	1	3
4	CHE224	Physical Chemistry II	2	-	1	2
5	CHE225	Fuels and Sustainable Energy	2	-	-	2
6	CHE226	Materials and Energy Balance	2	-	1	2
7	CHE227	MATLAB Engineering	2	2	-	3
8	CHE228	Environmental Pollution	2	-	-	2
Total			19	4	5	21
			28			



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Third Year

First Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	CHE311	Chemical Eng. Analysis I	3	-	1	3
2	CHE312	Heat Transfer I	3	2	1	4
3	CHE313	Mass Transfer I	3	-	1	3
4	CHE314	Chemical Eng. Thermodynamics II	3	-	1	3
5	CHE315	Engineering Materials Properties	2	2	-	3
6	CHE316	Petrochemical Engineering	2	-	-	2
7	CHE317	Water Technologies	2	-	-	2
Total			18	4	4	20
			26			

Second Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	CHE321	Chemical Eng. Analysis II	3	-	1	3
2	CHE322	Process Heat Transfer	3	-	1	3
3	CHE323	Mass Transfer II	3	-	1	3
4	CHE324	Corrosion Engineering	2	-	-	2
5	CHE325	Engineering Economics	2	-	-	2
6	CHE326	Chemical Industries	2	-	-	2
7	CHE327	Reactor design I	3	-	1	3
Total			18	-	4	18
			22			

*Evaluation of Industrial training carried out by students after the second semester is to be evaluated.



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Fourth Year

First Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	E411	Engineering Project I	-	2	-	2
2	CHE412	Unit Operation	3	2	1	4
3	CHE413	Process Dynamics	3	-	1	3
4	CHE414	Equipment Design I	2	-	1	2
5	CHE415	Reactor Design II	3	-	1	3
6	CHE416	Petroleum Refinery I	3	-	1	3
7	CHE417	Numerical Methods	2	2	-	3
Total			16	6	5	20
			27			

Second Semester

No	CODE	SUBJECT	Hours/Week			Units
			Th.	Prac.	Tut	
1	E421	Engineering Project II	-	2	-	2
2	E422	Projects Management & Ethics	2	-	-	2
3	CHE423	Transport Phenomena	3	-	1	3
4	CHE424	Process Control & Instrumentation	3	2	1	4
5	CHE425	Equipment Design II	2	-	1	2
6	CHE426	Catalytic Reactor Design	2	-	-	2
7	CHE427	Petroleum Refinery II	3	2	1	4
8	CHE428	Optimization and Simulation	2	2	-	3
Total			17	8	4	22
			29			