

Babylon University
 College of Engineering
 Department of Chemical Engineering
 Study Plan for B.Sc. Degree Course

year	First Semester		Second Semester	
	Hours/Week	Units	Hours/Week	Units
First	30	20	30	20
Second	30	20	30	21
Third	30	21	29	20
Fourth	27	17	26	16
Total	117	78	115	77

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First Year

First Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE110	English Language	1		1	1
2	CRE110	Computer Programming I	2	2		3
3	CRE111	Mathematics I	3		2	3
4	CHE110	Physics	2	2		3
5	CHE111	Engineering Drawing I		4		2
6	CRE112	Production operations	1	2		2
7	CHE112	Analytical Chemistry	2	2		3
8	CHE113	Principle of Chemical Engineering I	3		1	3
Total			14	12	4	20
			30			

Second Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE120	Arabic Language	2			2
2	URE121	English Language	1		1	1
3	CRE120	Computer Programming II	2	2		3
4	CRE121	Mathematics II	3		2	3
5	CRE122	Engineering Drawing II		4		2
6	CHE120	Organic Chemistry	2	2		3
7	CHE121	Principle of Chemical Engineering II	4		1	4
8	CHE122	Static and strength of materials	2		2	2
Total			16	8	6	20
			30			

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Second Year

First Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE210	Human rights	1			1
2	URE211	English Language	1		1	1
3	CRE210	Mathematics III	3		2	3
4	CRE211	Computer programming III	2	2		3
5	CHE210	Engineering Materials	2	2		3
6	CHE211	Physical Chemistry I	2	2	1	3
7	CHE212	Fluid Mechanics I	3		2	3
8	CHE213	Properties of Petroleum and Natural Gas	2	2		3
Total			16	8	6	20
			30			

Second Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE220	English	1		1	1
2	CRE220	Mathematics IV	3		2	3
3	CRE221	Computer program application	2	2		3
4	CHE220	Engineering Statistics	2			2
5	CHE221	Physical Chemistry II	2	2	1	3
6	CHE222	Fluid Mechanics II	3	2	1	4
7	CHE223	Electrical Engineering	2	2		3
8	CHE224	Industrial Safety	2			2
Total			17	8	5	21
			30			

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Third Year

First Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE310	English	1		1	1
2	CHE310	Engineering Analysis	3		1	3
3	CHE311	Heat Transfer I	3	2	1	4
4	CHE312	Mass Transfer I	3		1	3
5	CHE313	Reaction Kinetics	3		1	3
6	CHE314	Chemical engineering thermodynamics I	2		1	2
7	CHE315	Engineering Economics	2			2
8	CHE316	Corrosion Engineering	2	2	1	3
Total			19	4	7	21
			30			

Second Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE220	English	1		1	1
2	CHE320	Numerical analysis	3		1	3
3	CHE321	Heat Transfer II	3	2	1	4
4	CHE322	Mass Transfer II	3		1	3
5	CHE323	Reactor Design	3		1	3
6	CHE324	Chemical engineering thermodynamics II	2		1	2
7	CHE325	Electrochemical Engineering	2		1	2
8	CHE326	Petroleum refinery	2		1	2
9	CHE327	Summery Training	-	-	-	-
Total			19	2	8	20
			29			

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Fourth Year

First Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE220	English	1		1	1
2	CRE410	Project I		4		2
3	CHE411	Gas processing	2		1	2
4	CHE412	Process Control I	2		1	2
5	CHE413	Unit Operation	2	2	1	3
6	CHE414	Chemical industries	2		1	2
7	CHE415	Equipment Design I	2	2	1	3
8	CHE416	Renewable energies	2			2
Total			13	8	6	17
			27			

Second Semester

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	URE220	English	1		1	1
2	CRE420	Project I		4		2
3	CHE421	Pollution	2		1	2
4	CHE422	Catalyst	2			2
5	CHE423	Process Control II	2	2	1	3
6	CHE424	Nanotechnology	2		1	2
7	CHE425	Petrochemical industries	2		1	2
8	CHE426	Equipment Design II	1	2	1	2
Total			12	8	6	16
			26			