

*Ministry of Higher Education
and Scientific Research*



*Tikrit University
College of Engineering*



*Curriculum of Chemical
Engineering
Department*



Tikrit University

First Class

1 st Year			1 st Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
121a GE	Mathematics I	3	3	1	-
122a CHE	Organic Chemistry	4	3	-	2
131a CHE	Engineering Drawing (basics)	2	-	-	3
141a CHE	Principles of Chem. Eng. I	2	2	1	-
132a CHE	Static Mechanics	2	2	1	-
124a CHE	Computer Programming I	3	2	-	2
105 GE	Arabic Language	2	2	-	-
103a GE	Workshop Skills I	1	-	-	3
Total		19	14	3	10
Total hours per week			27		
1 st Year			2 nd Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
121b GE	Mathematics II	3	3	1	-
123b CHE	Analytical Chemistry	4	3	-	2
131b CHE	Engineering Drawing (Autocad)	2	-	-	3
141b CHE	Principles of Chem. Eng. II	2	2	1	-
132b CHE	Strength of Materials	2	2	1	-
124b CHE	Computer Programming II	3	2	-	2
111a GE	English Language	2	2	-	-
103b GE	Workshop Skills II	1	-	-	3
Total		19	14	3	10
Total hours per week			27		

Second Class

2 nd Year			1 st Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
221a GE	Engineering Mathematics I	3	3	1	-
241a CHE	Fluid Flow I	3	3	1	-
242a CHE	Physical Chemistry I	3	2	1	2
244a CHE	Principles of Chem. Eng. III	2	2	1	-
243a CHE	Environmental Pollution	2	2	-	-
211 GS	Democracy	1	1	-	-
232 CHE	Material Science	3	2	-	2
Total		17	15	4	4
Total hours per week			23		
2 nd Year			2 nd Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
221b GE	Engineering Mathematics II	3	3	1	-
241b CHE	Fluid Flow II	4	3	1	2
242b CHE	Physical Chemistry II	3	2	1	2
244b CHE	Principles of Chem Eng. IIII	2	2	1	-
243b CHE	Industrial Safety	2	2	-	-
212 GS	Human Rights	1	1	-	-
233 CHE	Corrosion Engineering	2	2	-	-
111b GE	English Language	-	1	-	-
Total		17	16	4	4
Total hours per week			24		

Third Class

3 rd Year			1 st Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
331a CHE	Engineering Analysis I	3	3	1	-
341a CHE	Thermodynamics I	3	3	1	-
342a CHE	Mass Transfer I	3	3	1	-
343a CHE	Heat transfer I	3	3	1	-
333a CHE	Engineering Statistics	2	2	-	-
344a CHE	Chemical Industries	2	2	1	-
321aCHE	Numerical Methods	3	2	-	2
Total		19	18	5	2
Total hours per week			25		
3 rd Year			2 nd Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
331b CHE	Engineering Analysis II	3	3	1	-
341b CHE	Thermodynamics II	3	3	1	-
342b CHE	Mass Transfer II	3	3	1	-
343b CHE	Heat transfer II	4	3	1	2
333b CHE	Engineering Economics	2	2	-	-
344b CHE	Petrochemical Industries	2	2	1	-
321b CHE	Optimization Methods	2	2	-	-
111c GE	English Language	-	1	-	-
-	Summer Training (4 weeks)	-	-	-	-
Total		19	19	5	2
Total hours per week			26		

Fourth Class

4 th Year			1 st Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
441a CHE	Unit Operation I	2	2	1	-
445a CHE	Reactor Design I	3	3	1	-
447a CHE	Process Control I	3	3	1	-
443a CHE	Petroleum Refining I	3	2	1	2
444a CHE	Equipment Design I	3	3	1	-
446a CHE	Engineering Project	2	1	-	1
111d GE	English Language	-	1	-	-
Total		16	15	5	3
Total hours per week			23		
4 th Year			2 nd Semester (hour/week)		
Code	Subject	Units	Theoretical	Tutorial	Lab.
441b CHE	Unit Operation II	3	2	1	2
445b CHE	Reactor Design II	3	3	1	-
447b CHE	Process Control II	4	3	1	2
443b CHE	Petroleum Refining II	2	2	1	-
444b CHE	Equipment Design II	3	3	1	-
446b CHE	Engineering Project	2	1	-	1
Total		17	14	5	4
Total hours per week			23		

Total number of units = 143

Total hours per week = 198