

(المنهاج الدراسي للمستوى الاول والثاني لقسم تقنيات الصناعات الكيماوية للعام الدراسي 2025-2026)
(باللغة الانكليزية)



DEPARTMENT OF CHEMICAL INDUSTRIES TECHNOLOGIES INDUSTRIAL UNITS OPERATION BRANCH

CURRICULUM FOR THE FIRST LEVEL – ACADEMIC YEAR 2025-2026



UNIVERSITY REQUIREMENTS (12 CREDITS)	Type	Course Title		No. of Theoretical Hours	No. of Practical Hours	Total Hours	No. of Credits	Course Code
		Course Title in Arabic	Course Title in English					
	Compulsory	حقوق الإنسان والديمقراطية	Human rights and Democracy	2	---	2	2	NTU 100
	Compulsory	اللغة الإنكليزية (1)	English language (1)	2	---	2	2	NTU 101
	Compulsory	مبادئ الحاسوب (1)	Computer principles (1)	1	1	2	2	NTU 102
	Compulsory	اللغة العربية (1)	Arabic language (1)	2	---	2	2	NTU 103
	Elective	الرياضة	Sport	1	1	2	2	NTU 104
	Elective	اللغة الفرنسية	French language	2	---	2	2	NTU 107

INSTITUTE REQUIREMENTS (7 CREDITS)	Type	Course Title		No. of Theoretical Hours	No. of Practical Hours	Total Hours	No. of Credits	Course Code
		Course Title in Arabic	Course Title in English					
	Compulsory	الرياضيات (1)	Mathematics (1)	2	---	2	2	TIKI 110
	Compulsory	الرياضيات (2)	Mathematics (2)	2	---	2	2	TIKI 111
	Compulsory	المعامل الميكانيكية	Mechanical Workshop	---	3	3	3	TIKI 113

SPECIALIZED REQUIREMENTS (39 CREDITS)	Type	Course Title		No. of Theoretical Hours	No. of Practical Hours	Total Hours	No. of Credits	Course Code
		Course Title in Arabic	Course Title in English					
	Compulsory	جريان الموائع	Fluid flow	3	3	6	6	ICTI 120
	Compulsory	تشغيل الوحدات الميكانيكية	Operating of Industrial Units	3	3	6	6	ICTI 121
	Compulsory	الكيمياء الفيزيائية	Physical Chemistry	3	3	6	6	ICTI 122
	Compulsory	الترمودينامك	Thermodynamic	3	3	6	6	ICTI 123
	Compulsory	الكيمياء العامة	General Chemistry	2	3	5	5	ICTI 124
	Compulsory	الكيمياء العضوية	Organic Chemistry	2	3	5	5	ICTI 125
	Compulsory	الرسم الهندسي	Engineering Drawing	---	3	3	3	ICTI 128
	Elective	الصناعات الغذائية	Food industries	1	1	2	2	ICTI 126
	Elective	الصناعات الدوائية	Pharmaceutical industries	1	1	2	2	ICTI 127

CURRICULUM SUMMARY



TOTAL THEORETICAL HOURS
30



TOTAL PRACTICAL HOURS
28



TOTAL HOURS
58



TOTAL CREDITS (UNITS)
58

GRAND TOTAL

58

CREDITS (UNITS)

- One credit (unit) equals 25 total student workload hours.
- "—" indicates that no hours are assigned in that category.
- Elective courses are selected according to the institute regulations.



(المستوى الثاني)



DEPARTMENT OF CHEMICAL INDUSTRIES TECHNOLOGIES INDUSTRIAL UNITS OPERATION BRANCH

CURRICULUM FOR THE SECOND LEVEL – ACADEMIC YEAR 2025-2026



UNIVERSITY REQUIREMENTS (10 CREDITS)	Type	Course Title		No. of Theoretical Hours	No. of Practical Hours	No. of Credits (Units)	Course Code
		Course Title in Arabic	Course Title in English				
	Compulsory	اللغة الانكليزية (2)	English language (2)	2	---	2	NTU 200
	Compulsory	مبادئ الحاسوب (2)	Computer principles (2)	1	1	2	NTU 201
	Compulsory	اللغة العربية	Arabic Language	2	---	2	NTU 202
	Elective	جرائم نظام البعث	The crimes of the Baath regime	2	---	2	NTU 203
	Compulsory	اخلاقيات المهنة	Professional Ethics	2	---	2	NTU 204

INSTITUTE REQUIREMENTS (2 CREDITS)	Type	Course Title		No. of Theoretical Hours	No. of Practical Hours	No. of Credits (Units)	Course Code
		Course Title in Arabic	Course Title in English				
	Elective	مبادئ السلامة المهنية	Principles of occupational safety	2	---	2	TIKI 207
	Elective	الادارة الصناعية	Industrial Management	2	---	2	TIKI 208

SPECIALIZED REQUIREMENTS (53 CREDITS)	Requirement	Course Title		No. of Theoretical Hours	No. of Practical Hours	No. of Credits (Units)	Course Code
		Course Title in Arabic	Course Title in English				
	Compulsory	تكنولوجيا النفط	Crude oil technology	2	3	5	ICT 210
	Compulsory	تقنيات تحسين النفط الخام	Technical & energy technology	2	3	5	ICT 211
	Compulsory	انتقال الحرارة	Heat transfer	2	3	5	ICT 212
	Compulsory	انتقال المادة	Mass transfer	2	3	5	ICT 213
	Compulsory	تقنيات القياس والسيطرة	Measurement techniques and control	2	2	4	ICT 214
	Compulsory	مبادئ الكهرباء	Principles of Electricity	2	2	4	ICT 215
	Compulsory	خواص المواد	Material properties	2	2	4	ICT 216
	Compulsory	بناء الاجهزة	Construct of devices	2	2	4	ICT 217
	Compulsory	معالجة المياه	Water treatment	2	3	5	ICT 218
	Compulsory	الصناعات الكيماوية	Chemical industries	2	3	5	ICT 219
	Compulsory	المشروع	Project	---	4	4	TIK 220
	Elective	التلوث البيئي	Environmental pollution	1	2	3	ICT 221
	Elective	السيطرة النوعية	Quality control	1	2	3	ICT 222
	Compulsory	التدريب الصيفي	Summer training	Pass/Completion Only			ICT 223

CURRICULUM SUMMARY

 TOTAL THEORETICAL HOURS 32	 TOTAL PRACTICAL HOURS 33	 TOTAL HOURS 65	 TOTAL CREDITS (UNITS) 65
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GRAND TOTAL

65

CREDITS (UNITS)

- One credit (unit) equals 25 total student workload hours.
- "---" indicates that no hours are assigned in that category.
- Summer training course is evaluated on pass/completion basis only.

