

Year/Level	Course Code	Course Name	Credit Hours	
First level for the academic year (2024–2025)	NTU 100	Human Rights and Democracy (Compulsory)	2	–
	NTU 101	English Language 1 (Compulsory)	2	–
	NTU 102	Computer Science 1 (Compulsory)	1	1
	NTU 103	Arabic Language (Optional)	2	–
	NTU 104	Sports (Optional)	1	1
	NTU 107	French Language (Optional)	2	–
	TIKI 110	Mathematics 1 (Compulsory)	2	–
	TIKI 111	Mathematics 2 (Compulsory)	2	–
	TIKI 113	Mechanical Laboratories (Compulsory)	–	3
	ICTI 120	Fluid Flow	3	3
	ICTI 121	Operation of Mechanical Units	3	3
	ICTI 122	Physical Chemistry	3	3
	ICTI 123	Thermodynamics	3	
	ICTI 124	General Chemistry	2	3
	ICTI 125	Organic Chemistry	2	3
	ICTI 128	Engineering Drawing	3	–
	ICTI 126	Food Industries (Optional)	1	2
	ICTI 127	Pharmaceutical Industries (Optional)	1	2
Total units (theoretical + practical)				70
7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
First level for the academic year (2024–2025)	NTU 200	English 2 (Compulsory)	2	–
	NTU 201	Computer 2	1	1
	NTU 202	Arabic Language	2	–
	NTU 203	Crimes of the Ba'ath Regime in Iraq	2	–
	NTU 204	Professional Ethics (Compulsory)	2	–
	TIKI 207	Principles of Occupational Safety (Optional)	2	–
	TIKI 208	Industrial Management (Optional)	2	–
	ICT 210	Petroleum Technology	2	3
	ICT 211	Crude Oil Improvement Techniques	2	3

	ICT 212	Heat Transfer	2	3
	ICT 213	Matter Transfer	2	3
	ICT 214	Measurement and Control Techniques	2	2
	ICT 215	Electrical Principles	2	2
	ICT 216	Properties of Materials	2	2
	ICT 217	Instrument Construction	2	2
	ICT 218	Water Treatment	2	3
	ICT 219	Chemical Industries	2	3
	TIKI 220	Project Management (Compulsory)	–	4
	ICT 221	Environmental Pollution (Optional)	1	2
	ICT 222	Quality Control (Optional)	1	2
Total units (theoretical + practical)				70