

Northern Technical University

Technical Institute / Mosul

Department of Environmental and Water Resources Techniques

Academic Year 2024-2025

For the first and second levels

First Level

No.	Course Name	Number of Units	Theoretical Hours	Practical Hours	Course Code
1	Engineering Mechanics	2	2	---	WRTI138
2	Principles of Fluid Mechanics	4	1	3	WRTI122
3	Principles of watering	3	1	2	WRTI135
4	Introduction to Space	4	1	3	WRTI128
5	2D geometric drawing	3	1	2	WRTI127
6	Mathematics 1	2	2	---	TIMO110
7	English language	2	2	---	NTU101
8	Computer 1	3	1	2	NTU102
9	Human Rights	2	2	---	NTU100
10	Microbiology 1	3	2	1	
11	Health Fee 1	3	2	1	
12	Healthy Chemistry 1	3	2	1	
10	Civil Laboratories	3	---	3	WRTI134
	Total Units	37	19	18	

Second Level

t	Course Name	Number of Units	Theoretical Hours	Practical Hours	Course Code
1	Material resistance	2	2	---	WRTI137
2	Applications of Fluid Mechanics	4	1	3	WRTI123
3	Irrigation Applications	3	1	2	WRTI136
4	Space Applications	4	1	3	WRTI129
5	3D geometric drawing	3	1	2	WRTI127
6	Math 2	2	2	---	TIMO112
7	Arabic Language	2	2	---	NTU104
8	Computer 2	3	1	2	NTU103
9	Microbiology 2	3	2	1	
10	Healthy Chemistry 2	3	2	1	
11	Health Fee 2	3	2	1	
12	Mechanics Laboratories	3	---	3	TIMO111
	Total Units	35	17	18	

No.	Course Name	Number of Units	Theoretical number of hours	Number of Hours Practical	Course Code
1	Introduction to Hydrology	3	1	2	WRTI241
2	Irrigation and drainage networks	4	1	3	WRTI243
3	Introduction to Puncture	3	1	2	WRTI245
4	Sprinkler irrigation techniques	3	1	2	WRTI247
5	Fundamentals of soil mechanics	3	1	2	WRTI249
6	Construction Materials	3	1	2	WRTI251
7	Professional Ethics	2	2	---	NTU201
8	Computer 1	3	1	2	WRTI221
9	Baath Party Crimes	2	2	---	
10	Project 1	2	---	2	WRTI233
	Total Units	28	11	17	

No.	Course Name	Number of Units	Theoretical Hours	Practical Hours	Course Code
1	Quantity Survey	2	2	---	WRTI240
2	Surface Water Hydrology	3	1	2	WRTI242
3	Drip irrigation techniques	3	1	2	WRTI248
4	Hydraulic Installations	4	1	3	WRTI244
5	Layout of trocar networks	3	1	2	WRTI246
6	Soil Investigations	3	1	2	WRTI250
7	Arabic Language	2	2	---	NTU103
8	English Language	2	2	---	NTU200
9	Project 2	2	---	2	WRTI233
	Total Units	24	11	13	