Engineering Technical College of Mosul / Department of Mechanical Power Mechanics Techniques Engineering / Postgraduate Studies / Technical Master's Degree / Thermal Engineering Technologies

Master of Thermal Engineering Techniques First Course - General

	Subject	Theoretical	Practical	Units
1	Advanced Heat Transfer	2		2
2	Advanced Fluid Mechanics	2	2	3
3	Advanced thermodynamics	2		2
4	Test Rigs Design, Measurements, and Data Analysis.	1		1
5	Advanced Applied Mathematics	2		2
6	Thermal Systems Design	2		2
7	English Language	1		1
	Total	12	2	13

Second Course - Specialized

	Subject	Theoretical	Practical	Units
1	Advanced Heat	2	2	3
	Exchangers Design			
2	Computational Fluid	2		2
	Dynamics (CFD)			
3	Exergy Analysis for	2		2
	Thermal Systems			
4	Renewable Energy	2		2
5	Elective Subject#	2		2
6	Research Methodology	2		2
	Total	12	2	13

Elective Subjects

	Subject	Theoretical	Practical	Units
1	Advanced Power Plants	2		2
	Engineering			
2	Mixed Refrigerants and Low-	2		2
	Temperature Applications			
3	Combustion Dynamic and	2		2
	Environment			