

## ( MSc. in Renewable Energy Engineering )

الخطة الدراسية لبرنامج ( ماجستير العلوم في الطاقة المتجددة )

### First path (Coursework and Thesis)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	EENG60101	Renewable Energy Systems	Required	None	3
	MENG60102	Modelling and Simulations for Renewable Energy Systems	Required	None	3
	MENG60103	Energy Economics	Required	None	3
Level 2		Elective course (1) from group A	Elective	None	3
		Elective course (2) from group B	Elective	None	3
	EENG60201	Optimization Technique in Renewable Energy	Required	None	3
Level 3	EENG60301	Technical Writing & Research Methodology	Required	None	3
		Elective course (3) from group A	Elective	None	3
		Elective course (4) from group C	Elective	None	3
Level 4	THES60002	Thesis	Required	None	6



تابع ... الخطة الدراسية لبرنامج ( ماجستير العلوم في الطاقة المتجددة )

**Second path (Coursework and Project)**

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	EENG60101	Renewable energy Systems	Required	None	3
	MENG60102	Modelling and Simulations for Renewable Energy Systems	Required	None	3
	MENG60103	Energy Economics	Required	None	3
Level 2		Elective course (1) from group A	Elective	None	3
		Elective course (2) from group B	Elective	None	3
	EENG60201	Optimization Technique in Renewable Energy	Required	None	3
Level 3	EENG60301	Technical Writing & Research Methodology	Required	None	3
		Elective course (3) from group A	Elective	None	3
		Elective course (4) from group B	Elective	None	3
Level 4	PROJ60002	Research Project	Required	None	3
		Elective course (5) from group C	Elective	None	3
		Elective course (6) from group C	Elective	None	3



تابع ... الخطة الدراسية لبرنامج ( ماجستير العلوم في الطاقة المتجددة )

List of elective courses

No.	Course Code	Course Name	Prerequisite(s)	Credit hours
<b>Group A</b>				
1	EENG60003	Solar Energy Systems	None	3
2	MENG60005	Energy Management	None	3
3	EENG60006	Control Systems engineering	None	3
4	MENG60002	Energy Conversion Systems and Storage	None	3
5	EENG60009	Biomass Energy Systems	None	3
<b>Group B</b>				
1	MENG60004	Wind Energy Systems	None	3
2	EENG60013	Smart Grids	None	3
3	MENG60010	Geothermal Energy Systems	None	3
4	MENG60007	Energy Efficiency Systems Analysis and Auditing	None	3
5	EENG60008	Renewable energy power quality	None	3
<b>Group C</b>				
1	EENG60001	Hydrogen Energy and Fuel Cells	None	3
2	EENG60012	Application of Nanotechnology in Renewable Energy Systems	None	3
3	EENG60014	Power electronics applications in renewable energy systems	None	3
4	MENG60011	Energy and environment	None	3

