

الخطة الدراسية لبرنامج (ماجستير العلوم في هندسة الطاقة المتجددة)

MSc. in Renewable Energy Engineering

Thesis Track : (مسار الرسائل)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	EENG60101	Renewable Energy Systems	Required	-	3
	MENG60102	Modelling and Simulations for Renewable Energy Systems	Required	-	3
Level 2	MENG60103	Energy Economics	Required	-	3
	EENG60201	Optimization Technique in Renewable Energy	Required	-	3
Level 3	EENG60301	Technical Writing & Research Methodology	Required	-	3
	-	Elective course (1) from group A	Elective	-	3
Level 4	-	Elective course (2) from group B	Elective	-	3
	-	Elective course (3) from group C	Elective	-	3
Level 5	-	Elective course (4) from group A	Elective	-	3
Level 6	THES60002	Thesis	Required	-	6
Total hours					33



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

Project Track : (مسار المشروع البحثي)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	EENG60101	Renewable Energy Systems	Required	-	3
	MENG60102	Modelling and Simulations for Renewable Energy Systems	Required	-	3
Level 2	MENG60103	Energy Economics	Required	-	3
	EENG60201	Optimization Technique in Renewable Energy	Required	-	3
Level 3	EENG60301	Technical Writing & Research Methodology	Required	-	3
	-	Elective course (1) from group A	Elective	-	3
Level 4	-	Elective course (2) from group B	Elective	-	3
	-	Elective course (3) from group A	Elective	-	3
Level 5	-	Elective course (4) from group B	Elective	-	3
	-	Elective course (5) from group C	Elective	-	3
Level 6	PROJ60002	Research Project	Required	-	3
	-	Elective course (6) from group C	Elective	-	3
Total hours					36



Elective Course: (المقررات الاختيارية)

No.	Course Code	Course Name	Perquisite(s)	Credit hours
Group A				
1	EENG60003	Solar Energy Systems	-	3
2	MENG60005	Energy Management	-	3
3	EENG60006	Control Systems engineering	-	3
4	MENG60002	Energy Conversion Systems and Storage	-	3
5	EENG60009	Biomass Energy Systems	-	3
Group B				
1	MENG60004	Wind Energy Systems	-	3
2	EENG60013	Smart Grids	-	3
3	MENG60010	Geothermal Energy Systems	-	3
4	MENG60007	Energy Efficiency Systems Analysis and Auditing	-	3
5	EENG60008	Renewable energy power quality	-	3
Group C				
1	EENG60001	Hydrogen Energy and Fuel Cells	-	3
2	EENG60012	Application of Nanotechnology in Renewable Energy Systems	-	3
3	EENG60014	Power electronics applications in renewable energy systems	-	3
4	MENG60011	Energy and environment	-	3

