

الخطة الدراسية

ماجستير العلوم في هندسة الطاقة
المتجددة

Study Plan

Master of Science in Renewable Energy
Engineering

Thesis Track (مسار الرسالة)

Level	Course Code	Course Title	Required/ Elective	Pre- Requisite Courses	Study Units
L1	EENG 60101	Renewable Energy Systems	R	-	3
	EENG 60102	Modelling and Simulations for Renewable Energy Systems	R	-	3
	MENG 60103	Energy Economics	R	-	3
Accredited Study Units					9
L2	EENG60201	Optimization Technique in Renewable Energy	R	-	3
		Elective course (1) from group A	E	-	3
		Elective course (2) from group B	E	-	3
Accredited Study Units					9
L3	EENG60301	Technical Writing & Research Methodology	R	-	3
		Elective course (3) from group A	E	-	3
		Elective course (4) from group C	E	-	3
Accredited Study Units					9
L4	THES60002	Thesis	R	-	6
Accredited Study Units					6
Total Accredited Study Units					33

Research Project Track (مسار المشروع البحثي)

Level	Course Code	Course Title	Required/ Elective	Pre- Requisite Courses	Study Units
L1	EENG 60101	Renewable Energy Systems	R	-	3
	EENG 60102	Modelling and Simulations for Renewable Energy Systems	R	-	3
	MENG 60103	Energy Economics	R	-	3
Accredited Study Units					9
L2	EENG60201	Optimization Technique in Renewable Energy	R	-	3
		Elective course (1) from group A	E	-	3
		Elective course (2) from group B	E	-	3
Accredited Study Units					9
L3	EENG60301	Technical Writing & Research Methodology	R	-	3
		Elective course (3) from group A	E	-	3
		Elective course (4) from group B	E	-	3
Accredited Study Units					9
L4	EENG6555	Research Project	R	-	3
		Elective course (5) from group C	E	-	3
		Elective course (6) from group C	E	-	3
Accredited Study Units					9
Total Accredited Study Units					36

Elective Courses

Course Code	Course Title	Pre-Requisite Courses	Study Units
Group A			
EENG60003	Solar Energy Systems	-	3
MENG60005	Energy Management	-	3
EENG60006	Control Systems engineering	-	3
MENG60002	Energy Conversion Systems and Storage	-	3
EENG60009	Biomass Energy Systems	-	3
Group B			
MENG60004	Wind Energy Systems	-	3
EENG60013	Smart Grids	-	3
MENG60010	Geothermal Energy Systems	-	3
MENG60007	Energy Efficiency Systems Analysis and Auditing	-	3
EENG60008	Renewable energy power quality	-	3
Group C			
EENG60001	Hydrogen Energy and Fuel Cells	-	3
EENG60012	Application of Nanotechnology in Renewable Energy Systems	-	3
EENG60014	Power electronics applications in renewable energy systems	-	3
MENG60011	Energy and environment	-	3