



College of Graduate Studies

Master's Degree in Mechanical Engineering/ Renewable Energy Comprehensive Track

Comprehensive Track: The total credit hours required for graduation are 33 credit hours, distributed as follows:

A: - Specialization Requirements Compulsory Credit Hours (24)	Course Code	Course Title	Credit Hours	Prerequisite
	0402735	Advanced Eng. Mathematics and Numerical Analysis	3	-
	0402724	Research Methodology	3	-
	0402740	Solar Energy	3	-
	0402720	Renewable Energy Systems	3	-
	0402753	Energy Management	3	-
	0402741	Energy Conversion and Efficiency	3	-
	0402760	Wind Energy	3	-
	0402761	Solar Photovoltaic (PV)	3	-

B: - Elective Major Requirements Credit Hours (9)	Course Code	Course Title	Credit Hours	Prerequisite
	0402759	Concentrated Solar Power	3	-
	0402742	Hydrogen Energy and Fuel Cell	3	-
	0402721	Thermo – Fluid Sciences	3	-
	0402730	Computational Fluid Dynamics and Heat Transfer, CFD	3	-
	0402763	Low Carbon Buildings	3	-
	0402762	Solar Desalination	3	-
	0402754	Modeling, Simulation and Optimization	3	-
	0402736	Nano Technology	3	-
	0402758	Bio-fuels	3	-
	0402765	Technical Feasibility and Economical Potential of Renewable Energy	3	-
	0402757	Energy Regulations	3	-

C: - College Compulsory	Course Code	Course Title	Credit Hours	Prerequisite
	Continuous Registration	0	
		Comprehensive Exam	0	