

❖ ERE Undergraduate program (UG)

❖ Core Courses

Code	Course Title	Credit Hour
ERE 311	Project Based Learning in ERE	2
ERE 312	Fluid Mechanics	3
ERE 313	Thermodynamics	3
ERE 315	Computational Methods for Engineers	1
ERE 316	Theory of Machines and Vibrations	3
ERE 317	Energy Conversion and Management	2
ERE 318	Sustainable Energy	3
ERE 321	Seminar on ERE	2
ERE 322	Combustion and Fuels	3
ERE 323	Power Stations	3
ERE 324	Heat and Mass transfer	3
ERE 411	Refrigeration and Air Conditioning	3
ERE 412	Solar Energy	3
ERE 421	Energy Storage and Transmission	3
ERE 422	ERE 422 Design of Thermal and Energy Systems	3
ERE 420	Graduation Project (1)	3
ERE 500	Graduation Project (2)	7
ERE 499	Industrial Training	4

❖ Elective Courses

Code	Course Title	Credit Hour
ERE 413	Hydraulic Machines and Hydraulic Stations	3
ERE 414	Desalination Technology	3
ERE 415	Energy Systems and Power Plants and Economics	3
ERE 416	Computational Fluid Dynamics (CFD)	3
ERE 417	Safety Codes and Environmental Laws	3
ERE 418	Project Management	3
ERE 419	Basics of Electrical Power and Smart Grid	3
ERE 423	Energy Systems	3
ERE 424	Energy Efficient Buildings	3
ERE 425	Energy Economics	3
ERE 426	Nuclear Power Plants	3

Graduation project		
Code	Course Title	Credit Hour
ERE 420	Graduation Project (1)	3
ERE 500	Graduation Project (2)	(7 Credit hours) Pre-requisite ERE 420
Industrial Training		
ERE 499	Industrial Training	(4 Credit hours)

