

MS in ENERGY TECHNOLOGIES AND MANAGEMENT (NON THESIS) PROGRAM OUTCOMES		NATIONAL QUALIFICATIONS OF RELATED FIELD*																																			
		ENGINEERING																																			
		A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	E1	E2	E3	E4	E5	E6	E7	E8	F1	F2	F3	F4						
1	Develop the ability to use critical, analytical, and reflective thinking and reasoning	x			x		x	x	x		x							x		x	x						x			x	x						
2	Reflect on social and ethical responsibilities in his/her professional life.																				x								x								
3	Gain experience and confidence in the dissemination of project/research outputs																						x														x
4	Work responsibly and creatively as an individual or as a member or leader of a team and in multidisciplinary environments.	x								x	x																x									x	
5	Communicate effectively by oral, written, graphical and technological means and have competency in English.																					x														x	
6	Independently reach and acquire information, and develop appreciation of the need for continuously learning and updating.		x		x			x	x																						x	x					
7	Design and model engineering systems and processes and solve engineering problems with an innovative approach.	x	x	x		x	x	x			x	x	x	x						x	x	x								x	x	x				x	
8	Establish experimental setups, conduct experiments and/or simulations.		x	x		x	x		x					x	x																x	x			x	x	
9	Analytically acquire and interpret data.		x	x		x			x					x																	x			x		x	
10	Demonstrate substantive knowledge of how energy relates to social, political, and economic aspects of contemporary life on a national, regional or global basis.				x																		x														
11	Discuss the relative advantages and disadvantages of using traditional fossil fuels (oil, natural gas, coal), renewable energy sources (hydro, solar, wind, biomass) and nuclear energy.				x																		x														
12	Explain the fundamentals of renewable energy and fossil fuel technologies.				x																																
13	Explain the dynamics of energy and electricity supply chains and the related markets.				x																																
14	Discuss the social and environmental effects of energy policies and technologies.				x																																
15	Develop fundamental energy financing models.				x																																
16	Gain experience with energy project management and energy strategy development.				x																																
17	Demonstrate knowledge on the fundamental Turkish energy regulations.				x																																
18	Demonstrate ability to access current and reliable information sources on energy.	x																																			x

* Please check <http://tyyc.yok.gov.tr/> for the list of national qualifications.

A: KNOWLEDGE, Theoretical & Factual

B: SKILL, Cognitive & Applied

C: COMPETENCY, Working Independently & Taking Responsibility

D: COMPETENCY, Ability to Learn

E: COMPETENCY, Communication & Social Competencies

F: COMPETENCY, Field Specific