BSc in Mechatronics Engineering Program Outcomes							N/	ATIO	NAL	. QU	ALIF	ICA	ΓΙΟN	S O	F RE	LATI	ED F	IELD	S*					
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		A1	B1	B2	В3	B4	B5	C1	C2	D1	D2	D3	D4	D5	D6	D7	E1	E2	E3	E4	E5	F1	F2	F3
1	Understand the world, their country, their society, as well as themselves and have awareness of ethical problems, values and responsibility to the self and to others																				х	X	х	Χ
2	Understand different disciplines from natural and statistical sciences to social sciences and art, and develop multidisciplinary approachs in thinking and practice		Х									Х												
3	Think critically, follow innovations and developments in science and technology, demonstrate personal and organizational entrepreneurship and engage in life-long learning in various subjects.					х			X	х	Х				X					X	X			X
4	Communicate effectively by oral, written, and graphical means in both English and Turkish.																	Х						
5	Take individual and team responsilibity, function effectively and respectively as an individual and a member or a leader of a team.							Χ								x							х	
E	Possess and apply knowledge of mathematics, science, and engineering.	Х	Х									Х												
7	Design and conduct research, do experiments, as well as analyze and interpret data.						Χ																	
8	Identify, formulate, and solve engineering problems.			Χ	Χ								Χ											
9	Use the techniques, skills, and modern engineering tools necessary for engineering practice.				Χ	Х								X	Х	Х	Х							
10	Analyze, Design and model engineering systems, components and processes.			Х	Х								Х	Х					Х					
11	In addition to basic differential and integral calculus, demonstrate knowledge in advanced mathematical topics such as linear algebra, differential equations, complex variables, multivariable calculus, discrete mathematics, probability and statistics, as well as computer science and physics, and use such knowledge in the design and analysis of complex systems containing hardware and software components	x	x	×	x							X	x	X										
12	Apply modeling, instrumentation, software, and experimental techniques and their combinations in the design, realization and integration of systems such as electrical, electronic, control, mechanical and heat transfer systems.		Х	х	Х	х						X	x	X	X		x		x					

^{*} Please check http://tyyc.yok.gov.tr/ for the list of national qualifications. The numbers represent the qualifications in the below system:

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