MS in MOLECULAR BIOLOGY, GENETICS AND BIOENGINEERING (WITH THESIS) PROGRAM OUTCOMES  1 Develop the ability to use critical, analytical, and reflective thinking and reasoning  2 Reflect on social and ethical responsibilities in his/her professional life.  3 Gain experience and confidence in the dissemination of project/research outputs  4 Work responsibly and creatively as an individual or as a member or leader of a team and in multidisciplinary environment  5 Communicate effectively by oral, written, graphical and technological means and have competency in English.  6 Independently reach and acquire information, and develop appreciation of the need for continuously learning a updating.  7 Design and model engineering systems and processes and solve engineering problems with an innovative approach.								—	—							NATIO	NAL C	UALII	FICATI	ONS (	OF REL	ATED F	IELD*														—	
		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																NATURAL SCIENCES																				
		A1	A2 /	A3 A	4 B1	B2	В3	B4 (	C1 (	.2 C3	C4	C5	C6 D	1 D2	D3	D4 E	1 E2	2 E3	E4	E5 E	6 E7	7 E8	F1 F	F2 F	3 F4	A1	A2	B1 B	2 B3	C1	C2 C	3 D1	E1	E2 E:	3 E4	F1 F	F2 F:	5 F4
1	Develop the ability to use critical, analytical, and reflective thinking and reasoning	x		,	(	x	x	x		x			х		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								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					,	c		х				x						x	
5	Communicate effectively by oral, written, graphical and technological means and have competency in English.																x								x								x	х	:			
6	Independently reach and acquire information, and develop appreciation of the need for continuously learning and updating.		x	,	(	x	x								x					:	x x							,	ĸ	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	х	x		x	x	x			x	<b>x</b> :	x			x		x		,	ĸ									
8	establish experimental setups, conduct experiments and/or simulations.		х	х	x	x		x		х	x		x	x	x					х :	x	x		x		х		,	ĸ							1		
9	Analytically acquire and interpret data.		х	х	x			x		х			x	x						x		x		x		х		,	ĸ							1		
10	Display knowledge of contemporary issues in molecular biology, genetics and bioengineering and apply them to a particular problem.	x							:	x									x							x		x			x							
11	Develop knowledge and theory by using data and scientific methods in molecular biology, genetics and bioengineering.	x							:	x									х									х	х									
12	Display a good command of scientific literature in biology, genetics and bioengineering for developing novel projects, mproving the quality of research and products.		х																		х							х				x						x

st 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