DSs in Materials Science and Engineering														NA	FION	AL Q	UALI	FICA		NS C	OF REI	LATE	D FIE	LDS*															
BSc in Materials Science and Engineering Program Outcomes		ENGINEERING & ENGINEERING TRADES														MANUFACTURING & PROCESSING																							
		1 B2	2 B3	B B4	B5 (C1 C2	2 D1	D2	D3 [04 D	5 D6	D7	E1	E2 E3	E4	E5	F1	F2	F3 /	41	B1 B2	2 B3	B4	B5 (C1 (C2 D	01 D	2 D3	3 D4	D5	D6	D7	E1	E2 E	E3 E	4 E	5 F1	. F2	F3
 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	х																	×	x	x	x
 Understand different disciplines from natural and statistical 2 sciences to social sciences and art, and develop multidisciplinary approachs in thinking and practice 	>	<							x												x							x											
 Think critically, follow innovations and developments in science and technology, demonstrate personal and organizational entrepreneurship and engage in life-long learning in various subjects. 				x		x	x	x			x				x	x			x				x			x	× >	<			x)	x x	<u> </u>		x
4 Communicate effectively by oral, written, and graphical means in both English and Turkish.														х																				х					
 Take individual and team responsilibity, function effectively and respectively as an individual and a member or a leader of a team. 						x						x						x							x							х						x	
6 Possess and apply knowledge of mathematics, science, and engineering.	x x	‹							х											х	х							x											
7 Design and conduct research, do experiments, as well as analyze and interpret data.					х																			х															
8 Identify, formulate, and solve engineering problems.		Х	X							Х											Х	Х							Х										
9 Use the techniques, skills, and modern engineering tools necessary for engineering practice.			х	x						>	x	x										х	х							х	х	х							
10 Analyze, Design and model engineering systems, components and processes.		x	x							x	(x							х	x							x	x					х				
 Applying fundamental and advanced knowledge of natural sciences as well as engineering principles to develop and design 11 new materials and establish the relation between internal structure and physical properties using experimental, computational and theoretical tools. 	x	< x	x						x	>	(x	x x	x	x					x		x									
12 Merging the existing knowledge on physical properties, design limits and fabrication methods in materials selection for a particular application or to resolve material performance related problems.	x																			x	x	x																	
 Predicting and understanding the behavior of a material under use in a specific environment knowing the internal structure or vice versa. 	>	<		x				x		x											x		x				X	<	х										

* 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