		Qualifications of Fields of Education			P	ROGR	AM Q	JALIFI	CATIO	NS			NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER	
	(Engineering - Academically Oriented)				PQ3	PQ4	<u>PQ5</u>	<u>PQ6</u>	PQ7	<u>PQ8</u>	PQ9	<u>PQ10</u>	EDUCATION IN TURKEY (NQF-HETR) 6. Level (Associate's) Qualifications	
KNOWLEDGE	have sufficient background in mathematics, natural sciences and their own field of study.		X	X		X		X					Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice lequipment and other resources.	KNOWLEDGE
X		,				X	X	X					- 1	GE
		e of theoretical and practical knowledge on mathematics,	X	X			X	X						
	solutions.	ciences and their own field concurrently for engineering .	Х	X	X	X	X	X	X				Use of advanced theoretical and practical knowledge within the field	
	identify, o	define, formulate and solve engineering problems; select	X	X	X		X		X				Interpret and evaluate data, define and analyze problems, develop	
		ply analytical methods and modeling techniques ate for this purpose.		X	X		X		X				solutions based on research and proofs by using acquired advanced knowledge and skills within the field.	
SKILLS	analyze a system, a system component or a process; make a design in consideration of realistic constraints in order to meet		X		X	X		X						SKILLS
SKI	the needs expected; and apply modern design methods.													
	select and use modern techniques and devices required for		X	X		X	X	X						
	engineeri	neering applications.												
	design ar	nd conduct experiments; collect data; report and interpret	X		X				X					
	the data of	collected.												
		assume active responsibility in individual work or multi-		X		X		X		X		X	Conduct studies at an advanced level in the field	
Si	Competence to Work Independently and Take Responsibility	disciplinary team work.	X	X	X		X	X	X	X	X		Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field.	C
COMPETENCES	ce to V tly and	know how to access information and do literature	X	X		X	X	X	X			X	Take responsibility both as a team member and on the second of the secon	COMPETENCES
OMPE	peteni endeni espon	information resources.	vey; and make use of databases and other x X X X individually in order to solve unexpection resources.	problems faced within the implementations in the field.	TENCE									
ၓ	Com Indepe												Planning and managing activities towards the	S
	_								X	X		X	development of subordinates in the framework of a project.	

		Qualifications of Fields of Education			F	ROGE	AM Q	JALIFI	CATIO	NS			NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER		
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	EDUCATION IN TURKEY (NQF-HETR) 6. Level (Associate's) Qualifications			
		know how to access information and do literature survey; and make use of databases and other information resources.	X	X		X	X	X	X		X	X	Evaluate the knowledge and skills acquired at an advanced level in the field with a critical approach		
		are aware of the need for lifelong learning; keep up with the developments in science and technology and renew	X								X		Determine learning needs and direct the learning.		
		themselves continuously.						X		X	X				
		make use of theoretical and practical knowledge on mathematics, natural sciences and their own field	X	X			X	X					Develop positive attitude towards lifelong learning		
	ence	concurrently for engineering solutions.				X	X	X		X	X			Learning	
	Learning Competence	identify, define, formulate and solve engineering problems; select and apply analytical methods and	X	X	X		X		X					ing Competence	
2) guir	modeling techniques appropriate for this purpose.													ဂ္ဂ
YETKİNLİKLER	Learr	analyze a system, a system component or a process; make a design in consideration of realistic constraints in	X	X	X	X		X							COMPETENCE
TKİN		order to meet the needs expected; and apply modern design methods.													ENC
YE		select and use modern techniques and devices required	X	X		X	X	X							ES
		for engineering applications.													
		assume active responsibility in individual work or multi-		X		X		X				X			
		disciplinary team work.													
	and	use computer software and communication and information technologies required in the field at the	X					X					Inform people and institutions, transfer ideas and solution	Corr	
	Communication and Social Competence	advanced level, as defined by the European Computer Driving Licence.	level, as defined by the European Computer	proposals to problems in written and orally on issues in the field.	ial Co										
	ımunic ial Co	communicate in oral and written form in a foreign language at minimum B1 level, as defined by the						X					Share the ideas and solution proposals to problems on issues in the field with professionals and non-professionals	Communication and Social Competence	
	Con	European Language Portfolio.		X			X	X	X	X			by the support of qualitative and quantitative data.	and	

Qualifications of Fields of Education (Engineering - Academically Oriented)					F	ROGR	AM Q	JALIFI	CATIO	NS			NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR)		
		<u>PQ1</u>	PQ2	PQ3	PQ4	<u>PQ5</u>	PQ6	<u>PQ7</u>	PQ8	PQ9	<u>PQ10</u>	6. Level (Associate's) Qualifications			
	Social Competence	establish technical communication through technical drawing.						X		X	X		Organize and implement project and activities for social environment with a sense of social responsibility.	Communication	
	and	have access to information and do literature survey; and make use of databases and other information resources.	X	Х		X	X	X	X				Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio B1 General Level.	ion and Social	
ENCES	Communication	have awareness of universal and social influences of their solution proposals to environmental problems; are conscious about entrepreneurship and innovation; and have knowledge about problems of the age in which they live.		X	X	X	X	X		X	X			Competence	COMPETENCE
COMPETENCES		have sense of professional and ethical responsibility.						X	X		X		Act in accordance with social, scientific, cultural and ethical values on the stages of gathering, implementation and release of the results of data related to the field.	Field	TENCES
	Specific Competence	have consciousness about project management, workplace practices, workers' health, environmental risk evaluation, environmental and work safety; and have awareness about legal consequences of engineering applications.						X			X		Possess sufficient consciousness about the issues of universality of social rights, social justice, quality, cultural values and also, environmental protection, worker's health and security.	Specific Competence	
	Field S	have awareness of universal and social influences of their solution proposals to environmental problems; are conscious about entrepreneurship and innovation; and have knowledge about problems of the age in which they live.									X X			etence	

		Qualifications of Fields of Education	PROGRAM QUALIFICATIONS										NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR)	
		(Computing - Academically Oriented)	<u>PQ1</u>	PQ2	PQ3	PQ4	PQ5	PQ6	<u>PQ7</u>	<u>PQ8</u>	PQ9	<u>PQ10</u>	6. Level (Associate's) Qualifications	
	alificational dents who	s that signify completion of the sixth cycle are awarded to											Qualifications that signify completion of the sixth cycle are awarded to students who	
KNOWLEDGE	have tl	neoretical and practical knowledge on mathematics, ng and computer sciences.	X	X		X		X					Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resources.	KNOWLEDGE
KNO			X			X	X	X					and ones resources.	DGE
		define and model problems related with informatics and/or er sciences; select and apply analysis and modeling	X	X		X	X		X				Use of advanced theoretical and practical knowledge within the field	
	methods	s appropriate for this purpose.	X	X	X	X	X	X	X					
	and obt	and use interactive experimental settings in order to define tain first solutions to problems related with informatics		X		X	X		X				Interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired advanced	
SKILLS	and/or o	computer sciences; and evaluate these settings.		X	X		X		X				knowledge and skills within the field.	SKILLS
Š	realize a	all stages of life cycle in computer-based systems.			X	X	X	X						S
	theoretic	select and use relevant knowledge in computing, mathematics and heoretical computer sciences, and information and communication technologies in order to solve problems in			X	X	X	X			X			
	informat	ics and/or computer sciences.		V				V	V	V				
	ork Take	assume active responsibility in individual work or multi- disciplinary teamwork.		X	v		v	X	X	X	X	X	Conduct studies at an advanced level in the field independently. Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field.	
	to W			^	^		^	^	^	^	^	^	Take responsibility both as a team member and individually	
	etence ndently				X		X	X		X	Χ	X	Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field.	
ICES	Competence to Work Independently and Take Responsibility								X	X		X	Diagning and managing activities towards the development	COM
ETEN		keep up with recent developments in informatics and computer sciences and in information and				X	X	X			X	X	Evaluate the knowledge and skills acquired at an advanced	ᇛ
COMPETENCES	tence	communication technologies with the awareness of the need for continuous professional development.							X		X		level in the field with a critical approach	COMPETENCES
	ig Competence							X		X	X		Determine learning needs and direct the learning.	
	Learning												peten	
	Les					X	X	X		X	X		Develop positive attitude towards lifelong learning	

Qualifications of Fields of Education					P	ROGR	AM Q	JALIFI	CATIO	NS			NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR)
	(Computing - Academically Oriented)				PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	6. Level (Associate's) Qualifications
		establish written and oral communication; keep up with the knowledge in the field of informatics and computer sciences and communicate with their colleagues in at				X	X	X		X		X	Inform people and institutions, transfer ideas and solution proposals to problems in written and orally on issues in the
		least one foreign language at minimum B1 level, as defined by the European Language Portfolio.		X	X		X		X	X		X	field.
		are aware of individual, institutional, social and universal effects of applications in informatics; and are conscious						X			X		Share the ideas and solution proposals to problems on lissues in the field with professionals and non-professionals
	al Con	about entrepreneurship and innovation.		X			X	X	X	X			Share the ideas and solution proposals to problems on issues in the field with professionals and non-professionals by the support of qualitative and quantitative data.
	Socia	d Social											Organize and implement project and activities for social
S	an							X		X	X	X	environment with a sense of social responsibility.
LENCE	nicatio												Monitor the developments in the field and communicate with
COMPETENCES	ommunication							X					Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio B1 General Level.
ၓ	ŏ												Use informatics and communication technologies with at
				X	X	X	X	X					least a minimum level of European Computer Driving License Advanced Level software knowledge.
	0	have awareness about legal consequences of						X			X	X	Act in accordance with social, scientific, cultural and ethic
		applications in informatics, with the sense of professional and ethical responsibility.						X	X		X	X	values on the stages of gathering, implementation and release of the results of data related to the field.
	ield S												Possess sufficient consciousness about the issues of universality of social rights, social justice, quality, cultural
	ш							X			X	X	values and also, environmental protection, worker's health and security.