THE RELATIONSHIP BETWEEN NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY PROGRAMME KEY LEARNING OUTCOMES- BASIC FIELD QUALIFICATIONS

Basic Field Qualifications (Engineering)			PROGRAM QUALIFICATIONS/OUTCOMES															**NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) 5. Level (Associate's) Qualifications**)		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
KNOWLEDGE	1- Has sufficient knowledge about mathematics, science and application of these fields to basic engineering sciences.			X X	X X	X X	X X	X X	X X	X X	X X				X X			1- Possess theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resource on basic level based on qualifications gained at secondary education level.		KNOWLEDGE
	2- Has knowledge on basic concepts related to basic engineering programs.			X X	X X	X X	X X	X X	X X	X X	X X				X X					
SKILLS	1- Functionalises the identified engineering problems with the basic engineering point of view and analyses them .			X	X	X X	X X	X	X X	X X	X X		X		X X			1- Gain the skills to use basic level theoretical and practical knowledge acquired within the field in the same field of a higher education level or in a field of same level.		SKILLS
	2- Uses modern tools and equipment needed for an engineering application by taking additional technical education.			X	X	X X	X X	X	X	X X	X				X			2- Interpret and evaluate data, define problems, do analysis, produce solutions based on proof with using basic level knowledge and practices gained within the field.		
	3- Draws graphics.				X															
	4- Thinks algorithmically					X	X	X			X				X					
	5- Carries out experiments to figure out engineering problems , gathers data, presents and comments on them				X	X	X	X	X	X	X	X	X		X					
COMPETENCES	Competence to Work Independently and Take Responsibility	1- Conducts studies either individually or in engineering teams	X		X	X	X	X	X X		X	X						1- Conduct studies at basic level within the field independently.	Competence to Work Independently and Take Responsibility	COMPETENCES
												X	X					2- Take responsibility as a team member in order to solve unexpected complex problems faced in the implementations within the field.		
			X									X	X					3- Conduct activities towards the development of subordinates within a project.		

THE RELATIONSHIP BETWEEN NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY PROGRAMME KEY LEARNING OUTCOMES- BASIC FIELD QUALIFICATIONS (Cont.)

Basic Field Qualifications (Engineering)			PROGRAM QUALIFICATIONS/OUTCOMES														NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) 5. Level (Associate's) Qualifications)		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
COMPETENCES	Learning Competence	1- Follows professional and academic developments in his/her field with consciousness of the need for lifelong learning and is open to innovations			X	X	X	X				X	X	X				1- Evaluate the acquired knowledge and skills at basic level within the field with a critical approach, determine and respond to learning needs.	Learning Competence	COMPETENCES
		2- Uses modern tools and equipment needed for an engineering application by taking additional technical education	X			X	X	X			X X	X	X X	X	X			2- Direct the education received to a higher education level in the same field or to an occupation in the same level.		
														X	X			3- Gain awareness of lifelong learning.		
COMPETENCES	Communication and Social Competence	1- Uses informatics and communication technologies with at least a minimum level of European Computer Driving License Basic Level software knowledge			X	X			X			X X	X X					1- Transfer the ideas based on the basic knowledge and skills acquired within the field through written and oral communication.	Communication and Social Competence	COMPETENCES
		2- Monitors the developments in the field and communicates with colleagues by using a foreign language at least at a level of European Language Portfolio A2 General Level .										X		X X				2- Share the ideas and solution proposals to problems about issues within the field with professionals and non-professionals.		
		3- Establishes a techinical communication by using graphics.			X		X						X	X				3- Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio A2 General Level.		
					X							X	X					4- Use informatics and communication technologies with at least a minimum level of European Computer Driving License Basic Level software knowledge.		
COMPETENCES	Competence Field Specific	1- Has an awareness of regarding professional ethics in engineering applications										X X						1- Possess social, scientific, cultural and ethic values on the stages of gathering, implementation and release of the results of data related to the field.	Competence Field Specific	COMPETENCES
			X									X						2- 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.		