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	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
SKILLS	1- Functionalities 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						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									
	5- Carries out experiments to figure out engineering problems , gathers data, presents and comments on them							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 X								1- Conduct studies at basic level within the field independently.	COMPETENCES / Competence to Work Independently and Take Responsibility
					X			X	X	X	X	X						2- Take responsibility as a team member in order to solve unexpected complex problems faced in the implementations within the field.	
																		3- Conduct activities towards the development of subordinates within a project.	

PROGRAMME KEY LEARNING OUTCOMES- BASIC FIELD QUALIFICATIONS (Cont.)

Basic Field Qualifications (Engineering)			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) 5. Level (Associate's) Qualifications)		
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					2- Direct the education received to a higher education level in the same field or to an occupation in the same level.		
																		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		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	2- Share the ideas and solution proposals to problems about issues within the field with professionals and non-professionals.		
		3- Establishes a technical communication by using graphics.														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														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.		