

**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		
KNOWLEDGE	1- Has sufficient knowledge about mathematics, science and application of these fields to basic engineering sciences. 2- Has knowledge on basic concepts related to basic engineering programs.				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
					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					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. 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.	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		
	3- Draws graphics.						X								
COMPETENCES	Competence to Work Independently and Take Responsibility	5- Carries out experiments to figure out engineering problems , gathers data, presents and comments on them.									X	X	X	1- Conduct studies at basic level within the field independently. 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.	Competence to Work Independently and Take Responsibility... COMPETENCES
		1- Conducts studies either individually or in engineering teams								X	X	X	X		
										X	X	X	X		

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			1	2	3	4	5	6	7	8	9	10	11	12			
COMPETENCES	Learning Competence	1- Has sufficient knowledge about mathematics, science and application of these fields to basic engineering sciences							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- Has knowledge on basic concepts related to basic engineering programs.					X		X	X							
					X	X	X										
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								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												
		3- Establishes a technical communication by using graphics.		X			X										
							X										
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