

Qualifications of Fields of Education (Engineering)			PROGRAM CAPABILITIES								National Qualifications Framework for Higher Education in Turkey (NQF-HETR, 6 th Cycle, Bachelor's Degree)		
			1	2	3	4	5	6	7	8			
KNOWLEDGE	1. Possesses sufficient background in mathematics, natural sciences and their own field of study.		X X	X X	X X	X X						1. Possessing advanced level theoretical and practical knowledge supported by textbooks with updated information, practicing equipment and other resources.	KNOWLEDGE
	1. Makes use of theoretical and practical knowledge on mathematics, natural sciences and their own field concurrently for engineering solutions.		X	X	X X	X X						1. Use of advanced theoretical and practical knowledge within the field.	
SKILLS	2. Identifies, defines, formulates and solves engineering problems; selects and applies analytical methods and modeling techniques appropriate for this purpose.		X X	X X	X X	X X						2. Interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired advanced knowledge and skills within the field.	SKILLS
	3. Analyzes a system, a system component or a process; makes a design in consideration of realistic constraints to meet the requirements expected; and applies modern design methods.			X									
	4. Selects and employs modern techniques and devices required for engineering applications.					X X							
	5. Designs and conducts experiments; collects data; analyzes and interprets the results.		X	X									
	COMPETENCES	Competence to Work Independently and Take Responsibility					X X						
X			X			X X	X X					2. Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field.	
						X X	X X					3. Planning and managing activities towards the development of subordinates in the framework of a project.	
Learning Competence		X X	X X	X X	X X							1. Evaluate the knowledge and skills acquired at an advanced level in the field with a critical approach.	Learning Competence
									X X	X X	2. Determine learning needs and direct the learning.		
		X	X	X					X X	X X	3. Develop positive attitude towards lifelong learning.		
		X	X	X									
		X	X										
			X										

[illegible]