NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY
THE MATRİX FOR COURSE & PROGRAM LEARNİNG OUTCOMES

Basic Field Qualifications (Wood Works and Industrial Engineering)			PROGRAM LEARNING OUTCOMES														**Natıonal Qualıfıcatıons Framework For Hıgher Educatıon In Turkey** (Nqf-Hetr) 6. Level (Associate's) Qualifications		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
KNOWLEDGE	1. Students gain adequate knowledge about the engineering fields in the branches of mathematics, physical sciences or their own branches		X X	X	X	X X	X	X			X					X		1. Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resources.		KNOWLEDGE
SKILLS	1. Students use the theoretical and practical knowledge in mathematics, physical sciences and their fields for engineering solutions		X	X	X	X X		X		X X	X X		X X					1. Use of advanced theoretical and practical knowledge within the field.		SKILLS
	2. Students choose and use the appropriate analytical mehtods and modelling techniques to identify, formulate, and solve the engineering problems					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.		
	3. Students design and carry out experiments, collect data, analyze and interpret the results.									X			X		X	X				
	4. Students gain the capacity to analyze a system, a component, and desing the process under realistic constraints to meet the desired requirements; and the ability to apply the methods of modern design accordingly							X				X								
	5. Students choose and use the modern technical tools necessary for engineering practice.					X			X	X										
COMPETENCES	Competence to Work Independently and Take Responsibility	1. Students gain the ability to work effectively both as an individual and in multi-disciplinary teams.			X			X X			X	X X	X				X	1. Conduct studies at an advanced level in the field independently.	Competence to Work Independently and Take Responsibility	COMPETENCES
		2. Students use the resources of information and databases for the purpose of doing research and accesing information.			X X	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		X X					X	3. Planning and managing activities towards the development of subordinates in the framework of a project.		

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COMPETENCES	Learning Competence	1. Students use the resources of information and databases for the purpose of doing research and accesing information.				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	COMPETENCES
		2. Students follow the current developments in their fields with a recognition of the need for lifelong learning and constantly improve themselves	X	X			X				X	X				X X		2. Determine learning needs and direct the learning.		
		3. Students gain adequate knowledge about the engineering fields in the branches of mathematics, physical sciences or their own branches				X		X		X	X					X X		3. Develop positive attitude towards lifelong learning.		
		4. Students choose and use the appropriate analytical mehtods and modelling techniques to identify, formulate, and solve the engineering problems		X				X								X	X			
		5. Students gain the capacity to analyze a system, a component, and desing the process under realistic constraints to meet the desired requirements; and the ability to apply the methods of modern design accordingly						X								X				
		6. Students choose and use the modern technical tools necessary for engineering practice.			X											X				
		7. Students gain the ability to work effectively both as an individual and in multi-disciplinary teams.				X		X									X			
COMPETENCES	Communication and Social Competence	1. Students use the information and communication technologies together with the computer software at the level required by the European Computer Driving Licence.						X X		X X	X		X X			X		1. Inform people and institutions, transfer ideas and solution proposals to problems in written and orally on issues in the field.	Communication and Social Competence	COMPETENCES
		2. Students use a foreign language according to the general level of European Language Portfolio B1 to communicate effectively in oral and written form.						X X		X		X	X X			X		2. 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.		
		3. - Students gain the ability to communicate using technical drawing.						X X		X		X	X X			X	X	3. Organize and implement project and activities for social environment with a sense of social responsibility		
		4. Students use the resources of information and databases for the purpose of doing research and accesing information.						X		X							X	4. 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.		
		5. Students develop an awareness of the universal and social effects of engineering solutions and applications, the entrepreneurship and innovation subjects and gain knowledge of contemporary issues	X					X		X					X			5. Use informatics and communication technologies with at least a minimum level of European Computer Driving License Advanced Level software knowledge.		

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COMPETENCES	Field Specific Competence	1. Students become informed of professional and ethical responsibility.						X		X X		X		X X			X X	1. Act in accordance with social, scientific, cultural and ethic values on the stages of gathering, implementation and release of the results of data related to the field.	Field Specific Competence	COMPETENCES
		2. Students develop an awareness as regards project management, workplace practices, employee health, environmental and occupational safety; and the legal implications of engineering applications.											X			X	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.		
		3. Students develop an awareness of the universal and social effects of engineering solutions and applications, the entrepreneurship and innovation subjects and gain knowledge of contemporary issues					X	X			X					X	X			

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