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

Basic Field Qualifications (Wood Works and Industrial Engineering Master Degree)			PROGRAM LEARNING OUTCOMES								**National Qualifications Framework For Higher Education In Turkey** (Nqf-Hetr) 7. Level (Associate's) Qualifications		
			1	2	3	4	5	6	7	8			
KNOWLEDGE	1. Reach expanded and in-depth information performing scientific research in engineering, evaluate, interpret and apply the information.		X X	X	X	X X	X	X			1-Develop and deepen knowledge in the same or in a different field to the proficiency level based on Bachelor level qualifications.		KNOWLEDGE
	2. Possess extensive knowledge of engineering techniques, methods, and their respective restrictions.		X	X X	X	X X		X		X X	2-Conceive the interdisciplinary interaction which the field is related with.		
	3. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.					X							
	4. Be aware of the new and developing applications; examine and learn them as required.				X					X			
SKILLS	1. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.		X			X		X X			1-Use of theoretical and practical knowledge within the field at a proficiency level.		SKILLS
	2. Devise engineering problems, develop methods to solve them and apply technological advancements in these solutions.			X		X			X	X	2-Interpret the knowledge about the field by integrating the information gathered from different disciplines and formulate new knowledge.		
	3. Develop new and original ideas and methods, generate innovative solutions for the design of a system, a component, or a process.				X			X X		X	3-Solve the problem faced related to the field by using research methods.		
	4. Design and apply analytical model based research and experimental research; solve and interpret complex situations faced during this process.			X	X								
COMPETENCES	Competence to Work Independently and Take Responsibility	1. Show leadership in multi-discipline teams, develop solutions to complex situations and take responsibilities	X	X X	X	X X	X X		X X	X	1-Independently conduct studies that require proficiency in the field.	Competence to Work Independently and Take Responsibility	COMPETENCES
		2. Reach expanded and in-depth information performing scientific research in engineering, evaluate, interpret and apply the information.			X X	X		X		X	2-Take responsibility and develop new strategic solutions as a team member in order to solve unexpected complex problems faced within the applications in the field.		
		3. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.			X X			X		X	3-Demonstrate leadership in contexts that require solving problems related to the field.		
		4. Devise engineering problems, develop methods to solve them and apply technological advancements in these solutions.	X	X	X	X		X		X			
		5. Develop new and original ideas and methods, generate innovative solutions for the design of a system, a component, or a process.	X	X				X		X			
		6. Design and apply analytical model based research and experimental research; solve and interpret complex situations faced during this process.			X	X	X		X				

Blue **X marks** **on the first line refer to relationship between Basic Field Qualifications and reletad program learning outcome.**
Pink X marks **on the second line refer to relationship between National Qualifications Framework For Higher Education In Turkey and reletad program learning outcome.**

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Basic Field Qualifications (Wood Works and Industrial Engineering Master Degree)			PROGRAM LEARNING OUTCOMES								**Natıonal Qualıfıcatıons Framework For Hıgher Educatıon In Turkey** (Nqf-Hetr) 7. Level (Associate's) Qualifications		
			1	2	3	4	5	6	7	8			
COMPETENCES	Learning Competence	1. Aware of the new and developing applications in the profession, investigate and learn them when needed.		X X		X X		X X			1-Evaluate knowledge and skills acquired at proficiency level in the field with a critical approach and direct the learning.	Learning Competence	COMPETENCES
		2. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.		X					X				
		3. Devise engineering problems, develop methods to solve them and apply technological advancements in these solutions.				X							
		4. Develop new and/or innovative solutions in the design of a system, a component, or a process.	X		X		X	X	X	X			
COMPETENCES	Communication and Social Competence	1. Communicate verbally and in written at least one foreign language at European Language Portfolio Level B2.			X		X X			X	1-Communicate current developments and studies within the field to both professional and non-professional groups systematically using written, oral and visual techniques by supporting with quantitative and qualitative data.	Communication and Social Competence	COMPETENCES
		2. Disseminate the process and results of studies to national and international environments verbally or in written clearly and in a systematic way in the field and outside the field.	X X	X		X		X	X	X	2-Investigate, improve social connections and their conducting norms with a critical view and act to change them when necessary.		
		3. Define the social and environmental aspects of engineering applications.	X X			X		X X			3-Communicate with peers by using a foreign language at least at a level of European Language Portfolio B2 General Level.		
		4. Reach expanded and in-depth information performing scientific research in engineering, evaluate, interpret and apply the information.	X		X X				X X	X	4-Use advanced informatics and communication technology skills with software knowledge required by the field.		
		5. Make up for the information and apply it using scientific methods with limited or uncompleted data; integrate information from different disciplines.				X			X				
		6. Devise engineering problems, develop methods to solve them and apply technological advancements in these solutions.		X		X	X		X	X			
		7. Have extensive knowledge of engineering techniques, methods, and their restrictions.		X	X	X	X						
		8. Design and apply analytical model based research and experimental research; solve and interpret complex situations faced during this process.		X					X				

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COMPETENCES	Field Specific Competence	1. Consider the scientific, social and ethical values in the collection, interpretion, and announcements of data and in all professional activities.	X X	X		 X	X X		X X	 X	1-Audit the data gathering, interpretation, implementation and announcement stages by taking into consideration the cultural, scientific, and ethic values and teach these values.	Field Specific Competence	COMPETENCES
		2. Make up for the information and apply it using cientific methods with limited or uncompleted data; integrate information from different disciplines.			X X	X X		 X		 X	2-Develop strategy, policy and implementation plans on the issues related to the field and assess the findings within the frame of quality processes.		
		3. Show leadership in multi-discipline teams, develop solutions to complex situations and take responsibilities.	X X	 X	X X		X X		X X	 X	3-Use the knowledge, problem solving and/or implementation skills in interdisciplinary studies.		
		4. Disseminate the process and results of studies to national and international environments verbally or in written clearly and in a systematic way in the field and outside the field.	X				X	X	X				

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