

**THE RELATIONSHIP BETWEEN BASIC FIELD QUALIFICATIONS AND PROGRAM QUALIFICATIONS**

Basic Field Qualifications		PROGRAM QUALIFICATIONS													National Qualifications Framework for Higher Education in Turkey (NQF-HETR) 5. Level (Associate's) Qualifications	
Computer Programming		1	2	3	4	5	6	7	8	9	10	11	12	13		
KNOWLEDGE	1. Has basic theoretical and practical knowledge in Mathematics, calculating and computer sciences.	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. Functionalises the identified informatics and/or computer sciences problems and applies basic solution suggestions.	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	SKILLS
	2. Uses algorithmic thinking and planning approach in the practices.	X	X	X	X	X	X X								2. Interpret and evaluate data, define problems, do analysis	
	3. Develops software components whose specifications are identified.	X	X				X									

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COMPETENCES	Competence of Working Independently and Taking	1. Works effectively either individually or in a group.	X					X			X	X			1. Conduct studies at basic level within the field independently	Competence of Working Independently
							X				X	X			2. Take responsibility as a team member in order to solve	
								X	X			X			3. Conduct activities towards the development of sub	
		1. Follows current developments in information and communication technologies with consciousness of the need for lifelong learning.		X			X	X		X	X	X			1. Evaluate the acquired knowledge and skills at basic	Learning Competence
										X	X				2. Direct the education received to a higher education level in the same field or to an occupation in the same level.	
									X						3. Gain awareness of lifelong learning.	

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COMPETENCES	Communication and Social Competence	1. Communicates both in written and verbal forms; speaks at least one foreign language at the level of A2 of the European Language Portfolio, follows developments in informatics and computer sciences and communicates with colleagues.	X	X	X	X	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	
												X							2. Share the ideas and solution proposals to problems about issues within the field with professionals and non-professionals.
												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								4. Use informatics and communication technologies with at least a minimum level of European Computer Driving License Basic Level software knowledge.

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COMPETENCES	Field Specific Competence	1.Has occupational and ethical responsibility, the awareness of importance of occupational ethics in informatics applications.		X				X	X X	X		X X	X 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.	Field Specific Competence	COMPETENCES
												X	X		X			