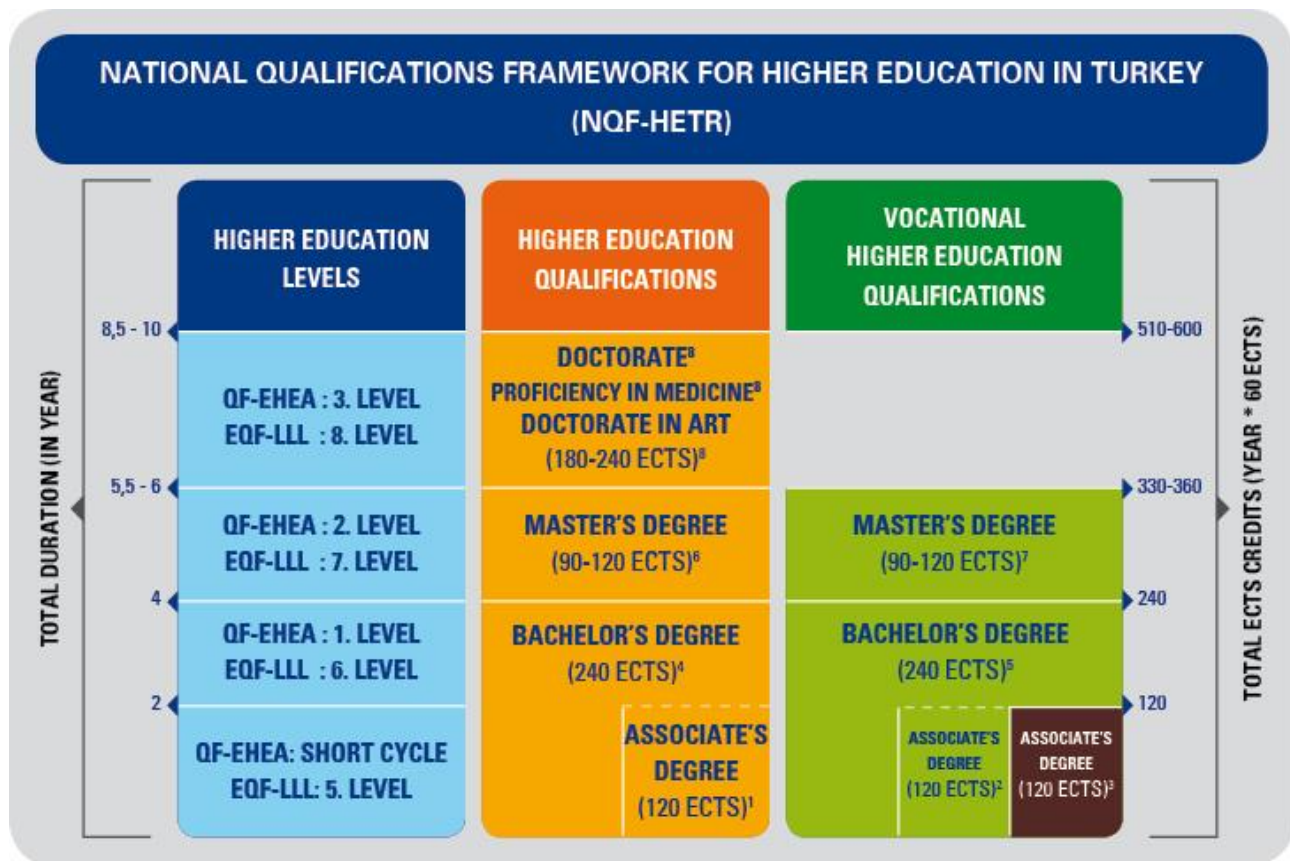


NQF-HETR/PROGRAM COMPETENCIES MATRIXES

<http://www.ttyc.yok.gov.tr/>)

Qualifications' Profiles for NQF-HETR Levels



1. Academically-oriented associate's degree educational programmes which are related to or within undergraduate programmes.
2. Vocationally-oriented associate's degree educational programmes which are related to or within undergraduate programmes.
3. Vocationally-oriented associate's degree educational programmes of Vocational Higher Schools
4. Academically-oriented programmes
5. Vocationally-oriented bachelor's degree programmes
6. Academically-oriented master's degree programmes with or without thesis

7. Vocationally-oriented master's degree programmes with thesis or without thesis
8. Doctoral programmes

Table 1: National Qualifications Framework For Higher Education In Turkey (NQF-HETR) Level 6 (Undergraduate Education) Qualifications (Level Higher Education Qualifications Framework is equivalent for TR and TRNC.)

Important Note: For Level 5, Level 7 and Level 8 qualifications, see: <http://tyvc.yok.gov.tr/?pid=33>

NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) (6. Level) Qualifications						
NQF-HETR LEVEL	KNOWLEDGE -Theoretical -Conceptual	SKILLS -Cognitive -Practical	COMPETENCES			
			Competence to Work Independently and Take Responsibility	Learning Competence	Communication and Social Competence	Field Specific Competence
6 BACHELOR'S EQF-LLL: 6. Level QF-EHEA: 1. Cycle	NQF-HETR 1: Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice equipment and other resources.	NQF-HETR 2: Use of advanced theoretical and practical knowledge within the field. NQF-HETR 3: 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.	NQF-HETR 4: Conduct studies at an advanced level in the field independently. NQF-HETR 5: Take responsibility both as a team member and individually in order to solve unexpected complex problems faced within the implementations in the field. NQF-HETR 6: Planning and managing activities towards the development of subordinates in the framework of a project.	NQF-HETR 7: Evaluate the knowledge and skills acquired at an advanced level in the field with a critical approach. NQF-HETR 8: Determine learning needs and direct the learning. NQF-HETR 9: Develop positive attitude towards lifelong learning.	NQF-HETR 10: Inform people and institutions, transfer ideas and solution proposals to problems in written and orally on issues in the field. NQF-HETR 11: 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. NQF-HETR 12: Organize and implement project and activities for social environment with a sense of social responsibility. NQF-HETR 13: Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European	NQF-HETR 15: Act in accordance with social, scientific, cultural and ethical values on the stages of gathering, implementation and release of the results of data related to the field. NQF-HETR 16: 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.

					Language Portfolio B1 General Level. NQF-HETR 14: Use informatics and communication technologies with at least a minimum level of European Computer Driving License Advanced Level software knowledge.	
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Table 2. Matrix of NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) and Data Science Program Outputs

IMPORTANT NOTE: This example is made to explain the format and the numbers may be updated by the Data Science Program.

NQF-HETR	KNOWLEDGE	SKILLS		COMPETENCES												
	Theoretical -Conceptual	Cognitive -Practical		Competence to Work Independently and Take Responsibility			Learning and Competence			Communication and Social Competence				Field Specific Competence		
NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR	NQF-HETR
Program Outputs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	5	5	5	5	3	2	3	3	2	4	4	3	1	5	2	2
2	4	4	4	3	2	2	4	3	2	2	2	5	1	4	5	4
3	4	4	5	3	2	1	5	4	3	1	2	2	2	4	2	1
4	4	4	5	4	4	1	3	2	2	1	1	1	1	2		
5	4	4	4	3	4	1	3	2	2	1	1	3	1	5		
6	4	4	4	3	4	1	3	2	2	1	1	3	1	5		
7	4	4	4	3	4	1	3	2	2	1	1	3	1	5		
8	2	3	4	3	5	5	5	4	2	4	4	1	4	1		
9	4	4	4	4	3	1	3	3	1	5	5	1	2	3		
10			2		1		2					2			5	5
	5-Very High	4-Above Average		3-Average			2-Below Average			1-Very Low						

Table 3. National Qualifications Framework For Higher Education In Turkey (NQF-HETR) for Computer Science Field (Bachelor's degree)

IMPORTANT NOTE: Each program must enter its own level and field definitions. <http://www.ttyc.yok.gov.tr/>

Faculty/School/Vocational School: School of Applied Sciences		
Program: Data Science (Bachelor's)		
N	Core Area	
		Program Competency
1	Knowledge (Theory - T)	T1. Has theoretical and applied knowledge in mathematics, computation and computer science.
2	Skills (Abilities - A)	A1. Identifies, defines and models informatics and/or computer science problems; selects and applies appropriate analysis and modeling methods for this purpose.
3		A2. Designs, implements and evaluates interactive experimental environments to obtain definitions and initial solutions of informatics and/or computer science problems.
4		A3. Performs all stages of the life cycle in computer-based systems.
5		A4. Selects and uses computational, mathematical and theoretical computer science knowledge and information and communication technologies to solve informatics and/or computer science problems.
6	Competencies	Competence to Work Independently and Take Responsibility - R R1. Works effectively individually or in multi-disciplinary teams.
7		Learning Competence - L L1. With the awareness of the necessity of continuous professional development, follows current developments in informatics and/or computer sciences, information and communication technologies.
8		Communication and Social Competence - C C1. Communicates verbally and in writing, follows information in the field of informatics and computer sciences and communicates with colleagues by using at least one foreign language at least at the European Language Portfolio B1 General Level. C2. He/she is aware of the individual, institutional, social and universal effects of IT applications and is aware of entrepreneurship and innovation issues.
9		
10		Field Specific Competence - P P1. Has a sense of professional and ethical responsibility and awareness of the legal consequences of IT applications.

Table 4. National Qualifications Framework For Higher Education In Turkey (NQF-HETR) for Computer Science Field (Bachelor's degree) and DASC Bachelor's Program Outcomes Matrix

IMPORTANT NOTE: A workshop is required to make and/or update this matrix. This example is made to explain the format and the mappings that may be updated by the Department of Interior Architecture.

[illegible]