

TURKISH HIGHER EDUCATION QUALIFICATIONS FRAMEWORK (THEQF) Level 7 (Master's Degree) Qualifications						
TYYÇ LEVEL	KNOWLEDGE (KNW) -Theoretical -Factual	SKILLS (SKLL) -Cognitive -Applied	PERSONAL AND PROFESSIONAL COMPETENCIES			
			Ability to Work Independently and Take Responsibility (AWITRC)	Learning Competence (LC)	Communication and Social Competence (CSC)	Field Specific Competence (FSC)
7 HIGH SCHOOL —— EQF- LLL: Level 7 —— QF- EHEA: Level 2	KNW 1- To be able to develop and deepen their knowledge in the same or a different field at the level of expertise based on undergraduate level qualifications. KNW 2- To be able to comprehend the interdisciplinary interaction related to the field.	SKLL 1- To be able to use the theoretical and practical knowledge at the level of expertise acquired in the field. SKLL 2- To be able to interpret and create new information by integrating the knowledge gained in the field with information from different disciplinary fields. SKLL 3- Using research methods to investigate the problems encountered in the field be able to analyze.	AWITRC 1- To be able to independently carry out a study requiring specialization in the field. AWITRC 2- To be able to develop new strategic approaches to solve complex and unforeseen problems encountered in applications related to the field and to produce solutions by taking responsibility. BÇSAY 3- To be able to lead in environments that require solving problems related to the field.	LC 1- To be able to evaluate the knowledge and skills at the level of expertise acquired in the field with a critical approach and to be able to direct his/her learning	CSC 1- To be able to systematically transfer the current developments in the field and his/her own studies to the groups in and out of the field in written, oral and visual ways by supporting them with quantitative and qualitative data. CSC 2- To be able to examine and develop social relations and the norms that guide these relations from a critical perspective and to be able to take action to change them when necessary. CSC 3- To be able to communicate orally and in writing in a foreign language at least at the B2 level of the European Language Portfolio. CSC 4- To be able to	FSC 1- To be able to supervise and teach social, scientific, cultural and ethical values in the stages of collecting, interpreting, applying and announcing the data related to the field. FSC 2- To be able to develop strategies, policies and implementation plans on issues related to the field and to evaluate the results obtained within the framework of quality processes. FSC 3- To be able to use the knowledge they have assimilated in the field of problem solving and/or application skills in interdisciplinary studies.

					use advanced information and communication technologies together with computer software at the level required by the field.	
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Competence (Field Specific Competence)	FSC 2																
	FSC 3																
	FSC 4																

TYYÇ <u>TEACHER TRAINING AND EDUCATION</u> SCIENCES BASIC FIELD <u>COMPETENCIES (ACADEMIC WEIGHTED)</u> Level 7 (Master's Degree)						
TYYÇ LEVEL	KNOWLEDGE (INF) -Theoretical -Factual	SKILLS (SKLL) -Cognitive -Applied	PERSONAL AND PROFESSIONAL COMPETENCIES			
			Ability to Work Independently and Take Responsibility (AWITR)	Learning Competence (LC)	Communication and Social Competence (CSC)	Field Specific Competence (FSC)
7 HIGH SCHOOL EQF-LLL: Level 7 QF-EHEA: Level 2	INF 1- Based on undergraduate qualifications, has theoretical and practical knowledge at the level of expertise in a field of educational science, develops and deepens this knowledge. INF 2- Related to the field between disciplines discusses the interaction.	SKLL 1- Uses the theoretical and practical knowledge at the level of expertise acquired in The field, develops and deepens this knowledge. SKLL 2- Functionally integrates the knowledge in the field with knowledge from different disciplinary fields and creates new knowledge. SKLL 3- Proposes solutions to problems requiring expertise by using quantitative and qualitative scientific research methods.	AWITR 1- Independently constructs a problem in the field, develops Solutions, solves, evaluates the results and applies them when necessary. AWITR 2- Develops new strategic approaches in complex situations that he / she does not foresee that he / she will encounter in his / her field of practice and produces solutions by taking responsibility. AWITR 3- Participates or leads team works related to the field effectively.	LC 1- Evaluates the information related to the field with a critical eye And directs learning. LC 2- In the field conducts studies within the framework of lifelong learning.	CSC 1- Systematically transfers the developments in the field and his/her own studies to the groups in and out of the field in written, oral and visual ways. CSC 2- Vocational and critically examines social relations in professional settings and the norms that guide these relations, takes action to improve them and change them when necessary, and acts as a leader. CSC 3- To be able to communicate orally and in writing in a foreign language at least at the B2 level of the European Language Portfolio. CSC 4- Information related to the field share orally and in writing at national/international level.	FSC 1- Interprets strategies, policies and implementation plans in the field, develops these plans and evaluates the results obtained within the framework of quality processes. FSC 2- Controls the stages of collecting, interpreting and announcing the data related to the field on the basis of social, scientific and ethical values and teaches these values. FSC 3- To apply the knowledge and skills acquired in the field in interdisciplinary studies applies.

					CSC 5- Uses information and communication technologies at an advanced level with the computer software required by the field.	FSC 4- Evaluates current developments in line with national values and country realities.
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TOTAL COURSE-PROGRAM OUTCOMES RELATIONSHIP

					Program Outcomes														
Code	Course Name	T	P	ECTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1. Year - 1. Semester																		
	Term Project	0	1	2	5	3	3	3	4	3	4	4	5	5	5	5	4	5	5
	Metacognitive Learning-Teaching Approaches	3	0	6	5	0	5	0	0	2	1	3	0	1	0	1	4	3	5
	Comparative Analysis of Mathematics Programs	3	0	6	5	0	5	0	0	2	1	3	0	1	0	1	4	3	5
	Modeling in Mathematics Education	3	0	6	5	4	4	5	3	0	0	4	5	4	4	0	0	5	0
	Teacher Education Studies	3	0	6	0	0	4	4	5	5	5	4	0	0	5	5	0	0	5
	Basics of Secondary School Mathematics Teaching	3	0	6	4	3	3	2	4	0	3	4	3	5	0	5	4	2	3
	Contemporary Teaching Approaches	3	0	6	5	4	3	1	0	1	3	4	5	5	2	5	5	4	3
	Utilizing Proof in Mathematics Teaching	3	0	6	5	5	4	4	3	3	2	3	1	0	3	5	4	4	3
	Test Development in Mathematics Education	3	0	6	5	5	4	3	4	3	2	4	1	0	0	5	4	4	4
	Mobile Applications in Mathematics Education	3	0	6	5	4	3	5	2	3	3	3	2	5	5	5	5	5	5
	Problem Solving in Mathematics	3	0	6	5	3	3	1	2	3	3	3	2	5	5	5	5	5	5
	Active Learning in Mathematics Education	3	0	6	5	4	3	2	2	3	3	3	2	5	5	5	5	5	5
	1. Year - 2. Semester																		
	Term Project	0	1	2	5	3	3	3	4	3	4	4	5	5	5	5	4	5	5
	Developing Math Power	3	0	6	5	0	5	0	0	2	1	3	0	1	0	1	4	4	5
	New Approaches in Learning Environment Design	3	0	6	5	0	5	0	0	2	1	3	0	1	0	1	4	3	5
	Technological Pedagogical Content Knowledge	3	0	6	5	5	5	5	0	4	5	5	0	5	5	5	4	0	5
	Cognitive Theories in Mathematics Education	3	0	6	5	4	0	0	5	5	4	5	4	0	5	4	0	5	5
	Skills in Teaching Mathematics	3	0	6	5	5	3	5	2	3	3	3	2	5	2	5	5	4	5
	Current Approaches and Applications in Assessment and Evaluation	3	0	6	5	3	3	0	2	2	3	3	1	5	5	5	5	5	3
	Teaching Mathematics with Games	3	0	6	5	5	4	4	3	3	2	2	1	0	5	5	4	3	4
	Technology Supported Mathematics Education	3	0	6	5	5	4	4	3	5	2	4	1	0	3	5	4	4	4
	Mathematics in National and International Examinations	3	0	6	5	4	3	5	2	3	3	3	2	5	5	5	5	5	5
	Current Studies in Mathematics Teaching	3	0	6	5	3	3	1	2	3	3	3	2	5	5	5	5	5	5
	Cloud Computing Applications in Mathematics	3	0	6	5	4	3	2	2	3	3	3	2	5	5	5	5	5	5