

Turkey Higher Education Qualifications Framework (TYYC, Level 8,)) Basic Field Competencies (Academic Weighted)			PROGRAM ÇIKTILARI													TYYÇ				
			PÇ-1	PÇ-2	PÇ-3	PÇ-4	PÇ-5	PÇ-6	PÇ-7	PÇ-8	PÇ-9	PÇ-10	PÇ-11	PÇ-12						
KNOWLEDGE	Theoretical-Conceptual	The basic sciences understand and apply mathematics and engineering sciences at high level.	1	x	x	x	x	x	x			x						1- Develop and deepen the current and advanced knowledge in the field with original thought and/or research and come up with innovative definitions based on Master's degree qualifications.	Theoretical-Conceptual	KNOWLEDGE
KNOWLEDGE	Theoretical-Conceptual	It has an expansion and in-depth knowledge, including the latest developments in the field.	2	x	x	x	x	x	x			x	x	x			x	2- Conceive the interdisciplinary interaction which the field is related with ; come up with original solutions by using knowledge requiring proficiency on analysis, synthesis and assessment of new and complex ideas.	Theoretical-Conceptual	KNOWLEDGE
SKILLS	Cognitive-Practical	It reaches the latest information in an area and has a high level of ability to be able to research by grasping them.	1	x		x		x		x	x			x	x			1- Evaluate and use new information within the field in a systematic approach.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	It makes a new scientific method or technological product / process that brings innovation to the science or technology, or a comprehensive work that develops a known method to a new area.	2			x	x	x	x	x	x			x	x	x	x	2- Develop an innovative knowledge, method, design and/or practice or adapt an already known knowledge, method, design and/or practice to another field; research, conceive, design, adapt and implement an original subject.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	The basic sciences determine and apply mathematics and engineering sciences at the upper level.	3	x		x		x			x				x	x		3- Critical analysis, synthesis and evaluation of new and complex ideas.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	Have an expansion and in-depth knowledge, including the latest developments in the field.	4			x	x	x				x	x	x	x	x		4- Gain advanced level skills in the use of research methods in the field of study.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	Independently detects, designs, implement and finalizes an original research process; manages this process.	5			x		x		x	x				x				Cognitive-Practical	SKILLS
COMPETENCES		It contributes to science and technology literature by publishing the outcomes of their academic work in respectable academic environments.	1						x		x				x	x		1- Contribute the progression in the field by producing an innovative idea, skill, design and/or practice or by adapting an already known idea, skill, design, and/or practice to a different field independently.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		It makes a new scientific method or technological product / process that brings innovation to the science or technology, or a comprehensive work that develops a known method to a new area.	2	x	x		x	x	x	x	x				x			2- Broaden the borders of the knowledge in the field by producing or interpreting an original work or publishing at least one scientific paper in the field in national and/or international refereed journals.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		Transfers scientific, technological, social and cultural developments to the community with evaluation and scientific neutrality and ethical responsibility.	3			x				x	x				x		x	3- Demonstrate leadership in contexts requiring innovative and interdisciplinary problem solving.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		Independently detects, designs, implement and finalizes an original research process; manages this process.	1	x		x		x		x					x		x	1- Develop new ideas and methods in the field by using high level mental processes such as creative and critical thinking, problem solving and decision making.	Learning Competence	COMPETENCES
COMPETENCES		In an area, it reaches the latest information and comprehend them with the necessary methods and skills in the necessary methods and skills.	2			x					x		x		x				Learning Competence	COMPETENCES
COMPETENCES		It makes a new scientific method or technological product / process that brings innovation to the science or technology, or a comprehensive work that develops a known method to a new area.	3								x				x				Learning Competence	COMPETENCES
COMPETENCES		It contributes to science and technology literature by publishing the outcomes of their academic work in respectable academic environments.	4					x			x				x				Learning Competence	COMPETENCES
COMPETENCES		The critical analysis of ideas and developments in the field of expertise makes its synthesis and evaluation.	1				x			x	x				x	x		1- Investigate and improve social connections and their conducting norms and manage the actions to change them when necessary.	Communication and Social Competence	COMPETENCES
COMPETENCES		In the field of expertise, he establishes written and oral effectively with employees and wider scientific and social communities, and the at least a foreign language portfolio of the at least European language portfolio C1 generally written, verbally and visual communication and discusses.	2					x		x	x	x		x		x		2- Defend original views when exchanging ideas in the field with professionals and communicate effectively by showing competence in the field.	Communication and Social Competence	COMPETENCES
COMPETENCES									x			x						3- Ability to communicate and discuss orally, in written and visually with peers by using a foreign language at least at a level of European Language Portfolio C1 General Level.	Communication and Social Competence	COMPETENCES
COMPETENCES		Assess scientific, technological, social and cultural developments and transfers scientific neutrality and ethical responsibility.	1						x		x	x			x	x	x	1- Contribute to the transition of the community to an information society and its sustainability process by introducing scientific, technological, social or cultural improvements.	Field Specific Competence	COMPETENCES
COMPETENCES		In the field of expertise, he establishes written and oral effectively with employees and wider scientific and social communities, and the at least a foreign language portfolio of the at least European language portfolio C1 generally written, verbally and visual communication and discusses.	2						x	x		x	x		x		x	2- Demonstrate functional interaction by using strategic decision making processes in solving problems encountered in the field.	Field Specific Competence	COMPETENCES
COMPETENCES												x			x		x	3- Contribute to the solution finding process regarding social, scientific, cultural and ethical problems in the field and support the development of these values.	Field Specific Competence	COMPETENCES