

Turkey Higher Education Qualifications Framework (TYYC, Level 7,)) 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	In the field of engineering, scientific research reaches the expansion and in-depth by making scientific research, evaluates, comments and applies.	1	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.	Theoretical-Conceptual	KNOWLEDGE	
KNOWLEDGE	Theoretical-Conceptual	The current techniques and methods applied in engineering are comprehensive knowledge about their constraints.	2		x			x				x			x	x	2- Conceive the interdisciplinary interaction which the field is related with.	Theoretical-Conceptual	KNOWLEDGE	
KNOWLEDGE	Theoretical-Conceptual	Completes and implements information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	3	x		x			x			x	x					Theoretical-Conceptual	KNOWLEDGE	
KNOWLEDGE	Theoretical-Conceptual	It is aware of the new and developing practices of his occupation and examines and learns them.	4												x		x	Theoretical-Conceptual	KNOWLEDGE	
SKILLS	Cognitive-Practical	Completes and implements information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	1	x	x	x	x		x	x		x	x					1- Use of theoretical and practical knowledge within the field at a proficiency level.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	Fictions of engineering problems develop methods to solve and implement innovative methods in solutions.	2		x			x	x	x		x			x			2- Interpret the knowledge about the field by integrating the information gathered from different disciplines and formulate new knowledge.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	Develops new and / or original ideas and methods; The system develops innovative solutions in parts or process designs.	3		x	x	x	x		x	x				x			3- Solve the problem faced related to the field by using research methods.	Cognitive-Practical	SKILLS
SKILLS	Cognitive-Practical	Design and implement analytical, modeling and experimental based research; Solutions and interpret the complex situations encountered in this process.	4	x		x		x		x					x			Cognitive-Practical	SKILLS	
COMPETENCES		Aware of the new and developing practices of his profession; examines and learns when necessary.	1				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
COMPETENCES		Completes and implement information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	2	x		x			x		x							Learning Competence	COMPETENCES	
COMPETENCES		Fictions of engineering problems develop methods to solve and implement innovative methods in solutions.	3				x		x		x				x			Learning Competence	COMPETENCES	
COMPETENCES		Develops new and / or original ideas and methods; The system develops innovative solutions in parts or process designs.	4			x		x		x					x			Learning Competence	COMPETENCES	
COMPETENCES		A foreign language communicates oral and written communication using at least the European Language Portfolio B2 overall.	1								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
COMPETENCES		The process and results of their work are systematically and openly written or verbally written or verbally in national and international environments other than or outside the field.	2							x		x		x			x	2- Investigate, improve social connections and their conducting norms with a critical view and act to change them when necessary.	Communication and Social Competence	COMPETENCES
COMPETENCES		Describe the social and environmental dimensions of engineering practices.	3									x		x	x			3- Communicate with peers by using a foreign language at least at a level of European Language Portfolio B2 General Level.	Communication and Social Competence	COMPETENCES
COMPETENCES		In the field of engineering, scientific research reaches the expansion and in-depth by making scientific research, evaluates, comments and applies.	4	x	x	x		x	x		x				x			4- Use advanced informatics and communication technology skills with software knowledge required by the field.	Communication and Social Competence	COMPETENCES
COMPETENCES		Completes and implements information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	5	x		x			x		x							Communication and Social Competence	COMPETENCES	
COMPETENCES		Fictions of engineering problems develop methods to solve and implement innovative methods in solutions.	6				x		x		x				x			Communication and Social Competence	COMPETENCES	
COMPETENCES		The current techniques and methods applied in engineering have comprehensive information on their constraints.	7				x		x						x			Communication and Social Competence	COMPETENCES	
COMPETENCES		Design and implement analytical, modeling and experimental based research; Solutions and interpret the complex situations encountered in this process.	8	x		x		x		x					x			Communication and Social Competence	COMPETENCES	
COMPETENCES		The collection, interpretation, announcement of the data and their social, scientific and ethical values in all of the professional activities.	1									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
COMPETENCES		Completes and implements information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	2	x		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.	Field Specific Competence	COMPETENCES
COMPETENCES		Many disciplined teams leads to leadership, develops solution approaches in complex situations and takes responsibility.	3	x	x			x			x		x				x	3- Use the knowledge, problem solving and/or implementation skills in interdisciplinary studies.	Field Specific Competence	COMPETENCES
COMPETENCES		The process and results of their work are systematically and openly written or verbally written or verbally in national and international environments other than or outside the field.	4								x		x		x			Field Specific Competence	COMPETENCES	
COMPETENCES		Many disciplined teams leads to leadership, develops solution approaches in complex situations and takes responsibility.	1				x		x	x		x					x	1- Independently conduct studies that require proficiency in the field.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		In the field of engineering, scientific research reaches the expansion and in-depth by making scientific research, evaluates, comments and applies.	2	x		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.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		Completes and implements information by scientific methods using limited or incomplete data; integrates the information of different disciplines.	3	x		x			x		x				x			3- Demonstrate leadership in contexts that require solving problems related to the field.	Competence to Work Independently and Take Responsibility	COMPETENCES
COMPETENCES		Fictions of engineering problems develop methods to solve and implement innovative methods in solutions.	4				x		x		x				x			Competence to Work Independently and Take Responsibility	COMPETENCES	
COMPETENCES		Develops new and / or original ideas and methods; The system develops innovative solutions in parts or process designs.	5			x		x		x					x			Competence to Work Independently and Take Responsibility	COMPETENCES	
COMPETENCES		Design and implement analytical, modeling and experimental based research; Solutions and interpret the complex situations encountered in this process.	6	x		x		x		x					x			Competence to Work Independently and Take Responsibility	COMPETENCES	