

**NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY (NQF-HETR) –
MECHANICAL ENGINEERING UNDERGRADUATE PROGRAM OUTCOMES RELATIONSHIPS AT IŞIK UNIVERSITY**

Mechanical Engineering NQF-HETR LEVEL: Bachelor (6)	PROGRAM OUTCOMES																											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PO 16	PO 17	PO 18	PO 19	PO 20	PO 21	PO 22	PO 23	PO 24	PO 25	PO 26	PO 27	PO 28
	(1a)	(1b)	(2a)	(2b)	(3a)	(3b)	(4a)	(4b)	(5a)	(5b)	(6a)	(6b)	(6c)	(7a)	(7b)	(7c)	(7d)	(7e)	(7f)	(8a)	(8b)	(9a)	(9b)	(10a)	(10b)	(10c)	(11a)	(11b)
KNOWLEDGE (Theory/Conceptual)																												
1-Possess advanced level theoretical and practical knowledge supported by textbooks with updated information, practice equipment and other resources.	★																											
SKILLS (Cognitive / Practical)																												
1-Use of advanced theoretical and practical knowledge within the field.		★																										
2-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.			★	★																								
3- Analyze a system, component or process and design a system, component or a process under realistic constraints by applying modern design methods.					★	★																						
4- Select and use modern techniques and tools needed for engineering applications							★	★																				
5- Design and conduct experiments, gather data, analyze and interpret results.									★	★																		
COMPETENCES																												
Work Independently and Take Responsibility																												

Communication and Social Relations																												
1-Use information and communication technologies together with computer software required by the discipline at least at the advanced level of European Computer Driving License.							★																					
2-Communicate effectively in oral and written forms; use a foreign language at least at the general level B1 of the European Language Portfolio.													★	★	★		★	★										
3-Communicate by using engineering drawings.		★				★							★			★												
4- Access information and conduct literature survey for this purpose, use databases and other information sources.							★												★									
5-Aware of the effects of engineering solutions and applications on universal and social dimensions; recognize the subjects of entrepreneurship and innovation and know about the problems of the era.																							★	★	★			
Field Specific Competences																												
1-Aware of professional and ethical responsibility																				★	★							
2-Aware of project management, workplace practices, health of employees, environmental and occupational safety; recognize the legal consequences of engineering practices.																						★		★	★	★		
3- Aware of the effects of engineering solutions and																							★	★	★			

[illegible]

(Note: The numbers of outcomes given in parenthesis address the program outcome numbers of MÜDEK, which is the authorized agency of Turkey for evaluation and accreditation of engineering undergraduate programs)