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	BSc in INDUSTRIAL ENGINEERING PROGRAM OUTCOMES		B1	B2	B3	В4	B5	C1		GINEE D1			_			_		F2	F3	E4	E5	F1	F2	F3
1	Understand the world, their country, their society, as well as themselves and have awareness of ethical problems, social rights, values and responsibility to the self and to others.							01													-		x	x
2	Understand different disciplines from natural and social sciences to mathematics and art, and develop interdisciplinary approaches in thinking and practice.		x									x												
3	Think critically, follow innovations and developments in science and technology, demonstrate personal and organizational entrepreneurship and engage in life-long learning in various subjects; have the ability to continue to educate him/herself.					x			x	x	x				x					x	x			x
4	Communicate effectively in Turkish and English by oral, written, graphical and technological means.																	x						
5	Take individual and team responsibility, function effectively and respectively as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams.							x								x							x	
6	Possess sufficient knowledge of mathematics, science and program-specific engineering topics; use theoretical and applied knowledge of these areas in complex engineering problems.	x	x									x												
7	Identify, define, formulate and solve complex engineering problems; choose and apply suitable analysis and modeling methods for this purpose.			x		x							x		x									
8	Develop, choose and use modern techniques and tools that are needed for analysis and solution of complex problems faced in engineering applications; possess knowledge of standards used in engineering applications; use information technologies effectively.					x											x							
9	Have the ability to design a complex system, process, instrument or a product under realistic constraints and conditions, with the goal of fulfilling specified needs; apply modern design techniques for this purpose.				x									x										
10	Design and conduct experiments, collect data, analyze and interpret the results to investigate complex engineering problems or program-specific research areas.						x																	
11	Possess knowledge of business practices such as project management, risk management and change management; awareness on innovation; knowledge of sustainable development.																						x	
12	Possess knowledge of impact of engineering solutions in a global, economic, environmental, health and societal context; knowledge of contemporary issues; awareness on legal outcomes of engineering solutions; knowledge of behavior according to ethical principles, understanding of professional and ethical responsibility.																				x			
13	Have the ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.																	x	x					
14	Formulate and analyze problems in complex manufacturing and service systems by comprehending and applying the basic tools of industrial engineering such as modeling and optimization, stochastics, statistics.			x	x								x	x										
15	Design and develop appropriate analytical solution strategies for problems in integrated production and service systems involving human capital, materials, information, equipment, and energy.			x	x								x	x										
16	Implement solution strategies on a computer platform for decision-support purposes by employing effective computational and experimental tools.			x	x								x	x										

\* Please check http://tyyc.yok.gov.tr/ for the list of national qualifications.

A: KNOWLEDGE, Theoretical & Factual

B: SKILL, Cognitive & Applied

C: COMPETENCY, Working Independently & Taking Responsibility

D: COMPETENCY, Ability to Learn

- E: COMPETENCY, Communication & Social Competencies
- F: COMPETENCY, Field Specific