

Department of INDUSTRIAL ENGINEERING

General Information

Industrial Engineering department offers Bachelor of Science (B.S.) and Master of Science (M.S.) degrees. Our undergraduate program was [first accredited](#) in May 1, 2013 for two years by the [Association for Evaluation and Accreditation of Engineering Programmes](#) (MÜDEK) and [awarded](#) the [First Cycle EUR-ACE Certificate](#). Our dedication to quality education has been rewarded with an [extension of three more years for the MÜDEK accreditation](#) and [the award of First Cycle EUR-ACE Certificate](#) until September 30, 2018.



Our undergraduate program strives to provide students with the necessary knowledge and skills to address organizational and industrial problems. Primary areas of interest are analysis, design, planning, operation and control of manufacturing and/or service systems.

The undergraduate program is based on mathematics, basic sciences and engineering analysis. In addition, students are encouraged to improve their background and skills in management, humanities, and social sciences. Graduates have the opportunity to participate in employment in both private and public sectors.

Some statistics related to our department are summarized below:

Enrollment Quantities (Spring Semester data)

	2010	2011	2012	2013	2014	2015
B.S.	75	75	75	80	80	68
M.S.			17	13	22	

Number of Degrees Awarded

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
B.S.	14	63	65	67	71	43	39	38	44	61	65	63	61	47	36	777
M.S.	-	-	-	-	-	1	3	2	2	0	0	3	3	2	1	17

Faculty and Staff (2014-2015)

- 9 full-time faculty
- 2 research assistants
- 5 experts
- 1 staff member

Facilities & Laboratories

Facilities and laboratories within Çankaya University are in service of our students providing equipment and tools, supporting our students' educational needs.



In addition to university-wide facilities and laboratories, our department has three industrial engineering-specific laboratories:

- Modeling & Simulation Laboratory,
- Work Study and Ergonomics Laboratory,
- Computer Aided Design (CAD) Laboratories (I and II),

providing our students with facilities where they can have experience on various program areas and link their theoretical knowledge with practice using the provided software and equipment.

There are also a Machine shop and a Flexible Manufacturing System Laboratory within Mechanical Engineering Department for the related courses of Industrial Engineering Department.

Modeling and Simulation Laboratory (ModSim Laboratory)

ModSim Laboratory is currently located in H338 with a system room besides it. The laboratory schedule is updated every semester based on the IE course schedule. ModSim Laboratory is open between 9:00 and 17:00 to all IE students except for the laboratory lecture hours. This lab is primarily used for conducting the applications for simulation and modelling related industrial engineering course, and also for our students to study and do their assignments such as homework and projects. The lab has 30 student desktop computers, all connected to the university network and internet. Various licensed software programs such as GAMS, Arena, Minitab, Bilişim ERP, Netsis ERP, Microsoft Office that are very important for industrial engineering curriculum are installed on computers. Also, a projector and smart board are available in this lab.



Work Study and Ergonomics Laboratory

This laboratory is located in room H340. It serves as work study and ergonomics laboratory in which required pieces of equipment are used to measure, test, calibrate and verify certain tasks, movements, and processes.

This laboratory is mainly used for the IE 202 course in the Industrial Engineering curriculum. There are several different laboratory tasks performed by students to enhance the theoretical knowledge given in class studies. By using tools such as stopwatch and environmental measurement instruments, students



conduct time study activities and work environment evaluations. Students are expected to conduct assembly tasks and do the required measurements in order to calculate cycle time, productivity ratio and production rate of these tasks. Since humans are the most important resource, improving their safety and comfort during processes by good design is a concern of industrial engineers.



By using tools such as audiometer, tape measure and anthropometer, students learn how to define the standards of equipment used for providing workers a better work environment. Practicing all these in the context of the IE 202 course help students analyze real life work systems and find ways to make them more productive in their future life.

Computer Aided Design (CAD) Laboratories (I and II)

Located in rooms H335 and H337, Computer Aided Design (CAD) laboratories are used mainly for engineering drawing courses. These laboratories have computers equipped with AutoCAD technical drawing software package as well as other basic software used in the Industrial Engineering courses, providing students an environment to work on their assignments and projects.

There are 31 desktop computers in room H335 and 32 desktop computers in room H337. Also, a projector and a smart board are available in both of these labs.

