



**T.C.
ÜSKÜDAR
UNIVERSITY**

Turkey's first thematic university in the field of Behavioral Health Sciences

Central Campus

Altunizade Mah. Haluk Türksoy Sk. No:14,
34662 Üsküdar / İstanbul / Türkiye

South Campus

Altunizade Mh. Mahir İz Cd. No:23 34674 Üsküdar / İstanbul / Türkiye

Çarşı Campus

Mimar Sinan Mh. Selman-ı Pak Cd. 34664 Üsküdar / İstanbul / Türkiye

Tel: +90 216 400 22 22 info@uskudar.edu.tr

www.uskudar.edu.tr/en

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Modern and qualified professionals equipped with required knowledge by the sector.

Faculty of Engineering and Natural Sciences

Üsküdar University, the first and only thematic university on Behavioural and Health Sciences, establishes its academic and teaching activities from "one step closer to understanding the human" perspective. Academic programs in engineering drawn within the framework of behavioural sciences are embraced in a multidisciplinary manner. Bioengineering, Computer Engineering, Molecular Biology and Genetics, Industrial Engineering Departments at Faculty of Engineering and Natural Sciences are in cooperation in order to make a remarkable scientific contribution. The primary goal of this multidisciplinary training is to give our students a wide range of education for enabling broader career opportunities.

Central, South and Çarşı Campuses located at the intersection of the transportation network in Uskudar
Smart campus system with the technological infrastructure

Education with smart board system in the classrooms

Guest house for female students with a capacity of 80 people, 200 meter walking distance to the main campus

Cooperation with many homes for female and male students

Library with Online Public Access Catalog (OPAC) system that can also be accessed via the internet

e-library consisting of PC and IMAC open for free use
Conference rooms equipped with the latest technology for up to 350 people

Multipurpose halls for smaller events and meetings
1.800 m² canteens

Cafeterias with indoor and outdoor areas offering food and beverage alternatives

2.500m² laboratory



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Humanity integrated quality education

BIOENGINEERING (English)

The aim of bioengineering program is to give training about technologies used in basic medicine and engineering sciences, to have graduates who can develop new technologies inspired by biological systems and processes and who can build bridges between medicine and engineering sciences. Although, the root of bioengineering is biology, bioengineers are to use complicated engineering devices and methods in their profession. This means implementation of engineering principles and methods on both medical and biological problems are essential. Üsküdar University provides research, development and laboratory opportunities to give an advantage to our bioengineering graduates for a good career in our country and abroad in both scientific and industrial fields.

COMPUTER ENGINEERING (English)

The aim of the department is to give the skills needed to solve complex technological problems of modern society, to solve the problems in the fields of biology and health using data science and engineering methods, to teach the fundamental principles of computers systems, design and development in computer engineering and to train professionals with proper knowledge who can train others in the future and research in the field to develop future technologies. Additionally, the department encourages students to collaborate with students from the other departments, involving in the technology side of the interdisciplinary projects and improve communication skills between different professionals. The graduates of the Computer Engineering Department are employed in different private and public industrial fields such as management, education, automotive, manufacturing, banking and insurance etc. Graduates may be employed in hospitals as health informatics professionals, as well.

INDUSTRIAL ENGINEERING (English)

Industrial engineers provide solutions with less cost, better quality by using fewer resources for every system. Industrial Engineering education covers operations research, statistics and data analysis, artificial intelligence and robotics, production

and inventory planning, mathematical modelling, logistics and supply chain management, simulation, optimization, network theory, quality and project management subjects. In the department, the mission is to prepare leaders in industrial engineering for both our Nation and the World, and to generate knowledge to improve engineering and academic skills. Students who have successfully completed 4-year training program, Industrial Engineer title is given to graduates. The graduates from the department can easily find jobs in a wide range of business options such as manufacturing, energy, transportation, transportation and logistics, supply chain management, healthcare, automation and control engineering, information technology, manufacturing, finance, telecommunications, tourism etc. Foreign and domestic job opportunities for this career is diversified and it is one of most appealing and promising occupations.

MOLECULAR BIOLOGY and GENETICS (Turkish and English)

Department of Molecular Biology and Genetics aims to give an interdisciplinary education. Therefore, the students obtain an advantage to find more job opportunities in scientific and industrial fields. The students actively attend laboratory experiments and research projects starting from their third year of education to gain professional and technical experience. Moreover, they aim to complete their graduation projects under guidance of their supervisors; to present the results and to publish their findings in a scientific journal. During their education, the students are provided internships in order to follow the latest applications and achievements in their scientific fields of interest.

General Information:

** Depending on the result of the application which was submitted to the Department of Higher Education (YÖK) in the 2015-2016 academic year, language of education of Computer Engineering, Bioengineering and Industrial Engineering Departments will be replaced by 100% English since the 2016-2017 academic year.*

Multidisciplinary
work opportunities

Faculty of Engineering and Natural Sciences