

ISU

ISTINYE
UNIVERSITY
I S T A N B U L

FACULTY OF
ENGINEERING





Prof. Çetin Kaya KOÇ
Faculty of Engineering Dean

Our faculty which is composed of six departments works in interoperation. We as faculty members and researchers make up a dedicated team. Our vision is to work in projects in collaboration for education and research, to create benefits and differences in Turkey and in its geography. Our mission for education and research is based on studying interdisciplinary by the team composed of competent, young, creative instructors and researchers who focus on developing products and getting results.

CREATIVE & PRODUCTIVE ENGINEERING

A journey from a simple idea to an important, complicated, and multi-layered product requires teams of analysis, design, and development to understand each other very well and working hard together. Academicians from different disciplines like biology, engineering, psychology should design and develop together by job sharing depending on the product's functions, qualities, and its relations with people.

One of the features in following years is that technological products contain the intellectual factors too. Artificial intelligence and machine learning techniques have been evaluating analytically the interactive history of technological products and services with environment and people and so the interaction has been kept alive. The model established by the history proposes the behaviours appropriate for intellectual approach.

As the Faculty of Engineering in IstinYE University we aim to raise “creative and productive” engineers by becoming a centre of education and research which will give acceleration to changes in the world of technology, will lead the new methods and techniques to develop and the ideas to build in this field. Our faculty is composed of six departments and it works in cooperation for education and research. The horizontal and vertical communication processes between research, analysis, and application phases for all designs have been kept alive in an environment without boundaries between the departments.

The students at Faculty of Engineering in IstinYE University gain expertise by intense laboratory researches while they gain a reliable basic, and wide knowledge of engineering by the instructional plan containing theories and current practices. The students are going to gain an extensive understanding about the practical and operative aspects of engineering thanks to our programs for internships and projects.

At the faculty, our objective is to provide the required learning and research environment to raise creative, researcher, and innovator engineers who make creative and sustainable solutions for technological problems, have a sense of social and environmental responsibility, and consider the ethical values. At our faculty, our academicians aim to make R&D outputs into social and economic benefits by the entrepreneurial activities and joint projects together with entrepreneurs.



COMPUTER ENGINEERING (ENGLISH)

The goal at the Department of Computer Engineering is to raise experts who can design and develop devices from the simplest respirator to the most complicated host computers and web systems. While the Department of Computer Engineering focuses on design and development of computers the Department of Software Engineering specializes in design and development of programs. That difference and the collaboration between computer engineering and software engineering provides engineers with opportunity to go into more depth in their own fields by abstracting the vertical stages from each other and it has been a driving force of the computer revolution for 40 years.



ELECTRICAL AND ELECTRONICS ENGINEERING (ENGLISH)

The goal at the Department of Electrical and Electronics Engineering is to raise engineers who put all discoveries especially in Quantum Physics into practice, therefore try to develop a new device or to use the discoveries in a new device. In addition to designing and building required electronic components for computer systems, electrical and electronics engineers design communication, assessment and evaluation systems in a large spectrum from the cabled and wireless communication to the medical imaging devices.



INDUSTRIAL ENGINEERING (ENGLISH)

The goal at the Department of Industrial Engineering is to raise engineers who can associate the other fields of engineering to each other in a planned way in line with a single target by defining, analysing, managing the projects, and working on them.

MECHANICAL ENGINEERING (ENGLISH)

The goal at the Department of Mechanical Engineering is to raise experts who solve systematic problems by adapting the methods in maths and in physics to design mechanical systems. The department is on the purpose of serving for research and education on advanced robotics control systems, device designing, measurement, and cyber-physical systems.



CIVIL ENGINEERING (ENGLISH)

The goal at the Department of Civil Engineering is to raise engineers who provide us with a living and working in organized cities by building long lasting and sustainable structures, roads, railways, tunnels, airports, and barrages.

SOFTWARE ENGINEERING (TURKISH)

The goal at the Department of Software Engineering is to raise experts who are going to design and develop all of the computer projects from a game with a complex graphic structure to the internet scanners. The focus of the department is the theories and practices of the programs. Software engineers focus on software projects independently of hardware.



LABORATORIES AT FACULTY OF ENGINEERING

Faculty of Engineering Laboratories are equipped with modern testing apparatuses. Education and research spaces where all students and academicians from the engineering departments can study together are provided. The main fields of application are medicine, robotics, and industrial systems in the laboratories. Faculty of Engineering Laboratories in Istinye University are 24 hours nonstop science and research places where ideas turn into projects and the projects become products by students, research assistants, and academicians in all fields of engineering.



PHYSICS LABORATORY

Physics Laboratory is where the first practicing classes are taught at the faculty. Students are provided with opportunities for understanding physics which contributes daily life thanks to its engineering approaches, by performing experiments safely.

DIGITAL SYSTEMS LABORATORY

Digital Systems Laboratory provides senior students with a free environment with desired equipment in line with students' requests and fields of interest.

ELECTRONICS AND COMMUNICATION LABORATORY

This is the first laboratory for students in the Department of Electrical and Electronics Engineering in order to use the basic knowledge in engineering. It supports students to learn the working principles of circuit components by using integrated circuits and simple electronic circuit blocks in Circuits and Systems courses.



ROBOTICS LABORATORY

This is the ideal laboratory provided for students who are interested in robot programming platforms and artificial intelligence, and who want to develop current robotics technologies in academy and in the industry.



MATERIALS AND MEASURING TECHNIQUES LABORATORY

This is one of the basic laboratories of the Mechanical Engineering and it is actively used during the courses titled Statics, Introduction to Mechanical Engineering, Materials Science for Engineers, Resistance, and Machine Elements 1-2 all along the undergraduate education.





PRODUCTION SYSTEMS **LABORATORY**

Production Systems Laboratory is one of the basic laboratories of engineering departments and it is often used by the Departments of Industrial Engineering and of Mechanical Engineering. There is also a Mechanics Laboratory inside of it.



ADVANCED PROJECTS **LABORATORY**

This laboratory provides academicians with required infrastructure to keep their researches. There are special rooms for each faculty member. Students perform their practice and research activities together with academicians within this laboratory.



UNIX 1 AND UNIX 2 **LABORATORIES**

UNIX 1 Laboratory contains 60 pieces of iMac computers within itself. It is used for developing licensed independent software and the operation of the courses which require various applications. UNIX 2 Laboratory contains Ubuntu which is one of the Linux operating systems and 45 pieces of laptops with latest configuration.



PC 1 AND PC 2 **LABORATORIES**

There are 116 pieces of computers with Windows operating system in total in PC Laboratories. It is used for some introductory courses like Computer Literacy taught in the Faculty of Engineering while it is available for general usage of the university.



ARTIFICIAL INTELLIGENCE **LABORATORY**

Artificial Intelligence Laboratory conducts the basic and operational researches and the educational activities on machine learning, deep learning, machine vision, and big data. It focuses on a wide range of different implementations from medicine to defence industry because of its multidisciplinary structure.



OPTIMIZATION AND SIMULATION **LABORATORY**

Optimization and Simulation Laboratory is used for the courses in curriculum and it hosts the research and projects activities on mathematical optimization, dynamic programming, real time systems simulation, predictive data analytics, calculative methods, and financial engineering. In this context, contributing the solutions of the real emergent problems in the areas such as production, transportation, health, and finance is intended.

PRIVILEGES OF BEING A MEMBER OF ISTINYE

A Strong
Academic
Staff

Convenience
of Doing Minor
and Double
Major

Research
Laboratories Which
are Competing
with the World in
the Field

Efficient Distance
Education
Platform

A University
Culture That
Supports
Entrepreneurship

Opportunities
Which Support
Cultural and
Social
Development

Research and
Production
Oriented University
Culture

Opportunities
for International
Education

NONA
To Have a Head
Start to the
Career Life by
Receiving the
Diploma from
Istinye University

Opportunity to
Take Courses from
the Leading
Names in the Field

Opportunities for
Continuous and
High Rates of
Scholarships

A Rich Library and
Online Access

Current Curriculums
Designed by
Consulting the
Delegates of the
Industry

A Student
Centred
Campus Life
That is
Enriched with
the Activities

Learning by
Experience