

N E X T - G E N E R A T I O N E N G I N E E R I N G

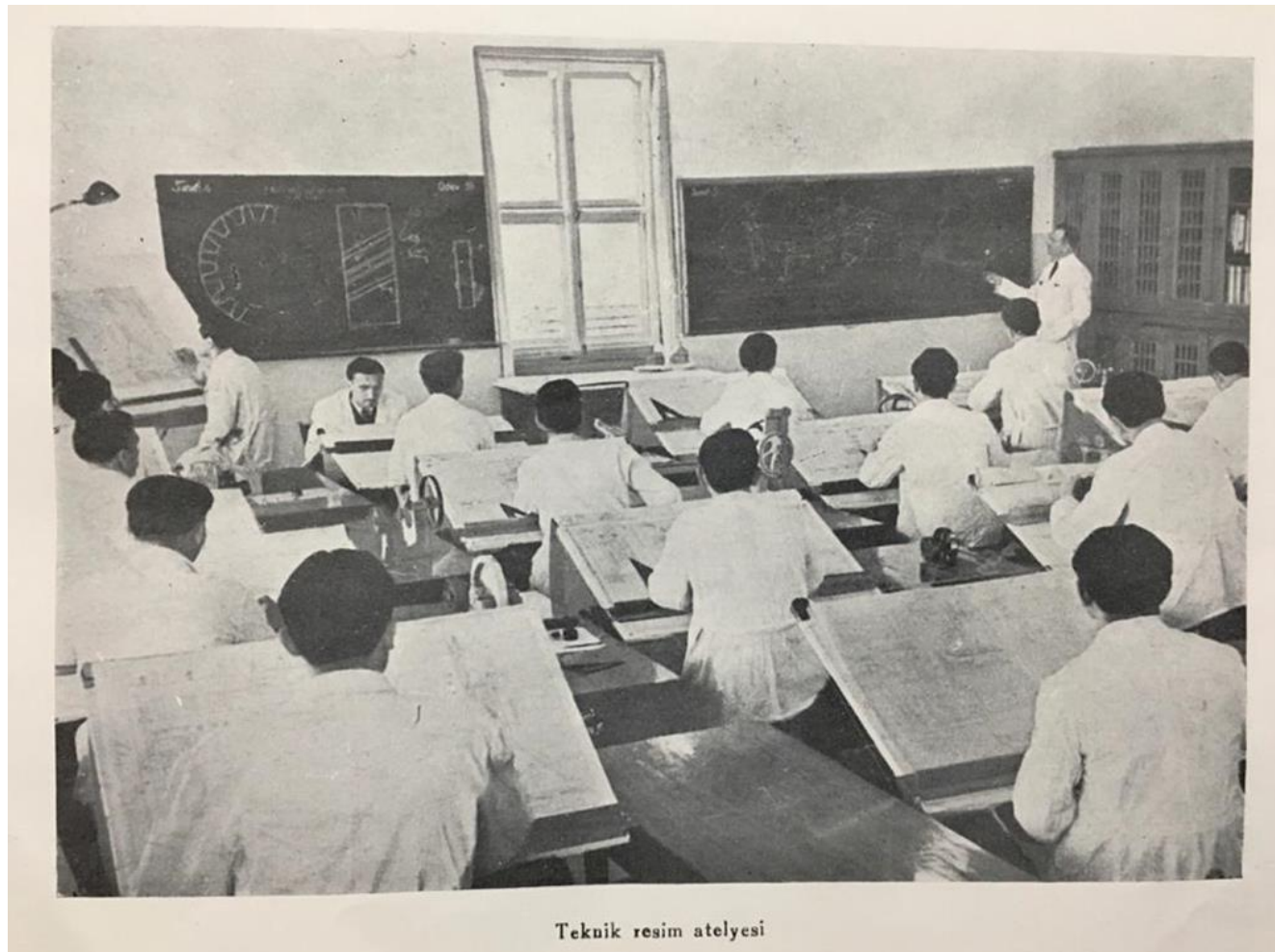
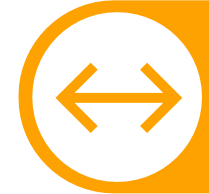


INDUSTRIAL DESIGN ENGINEERING





FROM PAST TO PRESENT...

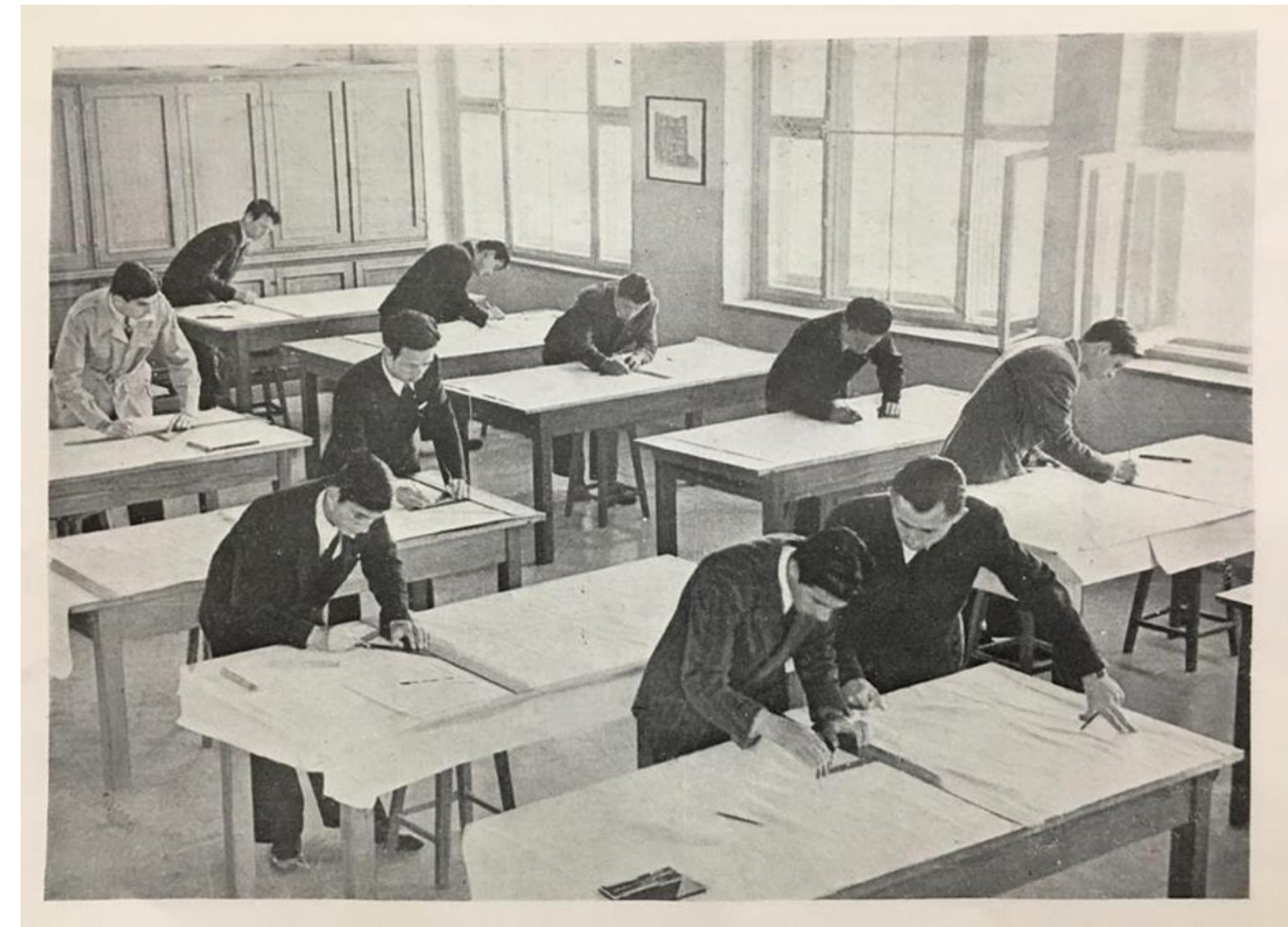


Teknik resim atelyesi

Gazi University Faculty of Technology is a well-established institution with a long-standing tradition of technical teacher education dating back to the early 20th century. Established under Gazi University in 1982 as the Faculty of Technical Education, it has undergone continuous transformation over the years in parallel with developments in industry and technology.

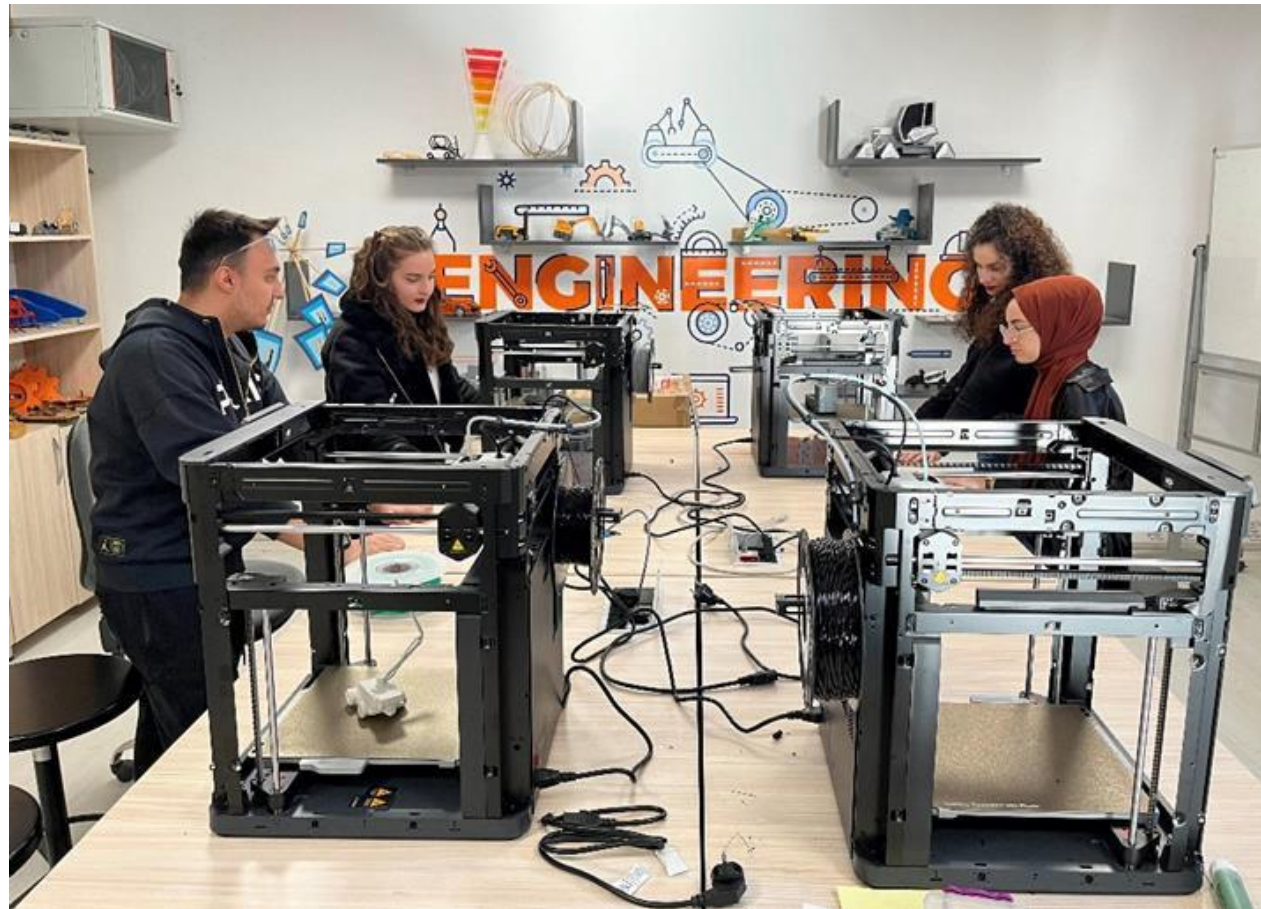
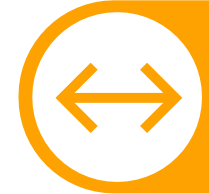
Since 2009, it has continued its activities within Gazi University as the Faculty of Technology, adopting a practice-oriented engineering education approach.

Today, with its departments offering both undergraduate and graduate programs, Gazi University Faculty of Technology is recognized as one of the leading faculties in Turkey in the field of applied engineering.





FROM PAST TO PRESENT...



Within this framework, the **Industrial Design Engineering (IDE) Department** was established in 2013 and admitted its first students.

Adopting an educational approach that integrates design and engineering, the department aims to educate competent engineers in areas such as product development, ergonomics, and computer-aided design and manufacturing.

The department is equipped with modern laboratory infrastructure designed to meet the requirements of contemporary engineering education. Through this infrastructure, students are able to transform their theoretical knowledge into practice and gain hands-on experience in industrial product design processes, from the conceptual stage to prototyping.



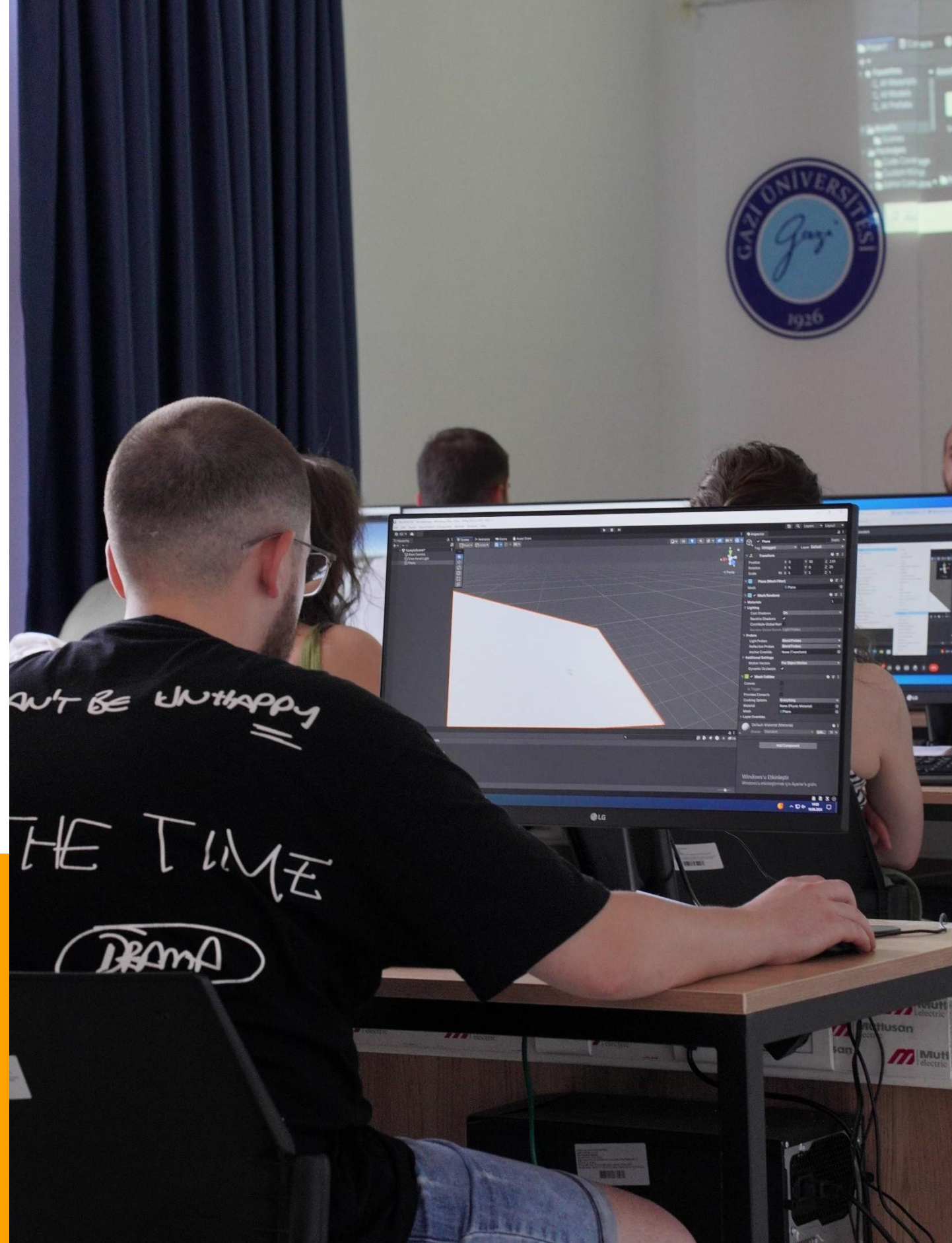


Industrial Design Engineering

- Industrial Design Engineering (IDE) is a discipline that encompasses the development of new ideas and concepts in line with societal demands and market needs, as well as the processes involved in bringing these ideas into mass production.
- This discipline integrates creative design processes with engineering principles to deliver innovative and sustainable solutions.
- Industrial design engineers play an active role at every stage of a product's lifecycle—from design to production and use—aiming to meet both aesthetic and technical requirements.
- In today's world, innovative thinking and the successful implementation of such ideas are of great importance for countries to sustain economic strength and long-term competitiveness. IDE constitutes one of the key pillars of this process.
- IDE is a specialized field of engineering that focuses on the conceptualization, development, and realization of products, systems, and structures. It integrates principles from various engineering disciplines with design methodologies to create innovative and functional solutions that meet specific needs.



Design the Products of the Future Today!



Engineering that Integrates Aesthetics and Functionality



Why Industrial Design Engineering?

The Industrial Design Engineering (IDE) program enables students to develop innovative and meaningful engineering solutions by combining creative and technical skills. With its diverse career opportunities, commitment to lifelong learning, and direct contributions to society, this program represents an excellent choice for shaping a successful future.

Design engineers work across a wide range of industries to develop new products, improve existing ones, and ensure that designs are practical, efficient, and manufacturable.

Key Advantages of the IDE Program:

1. Integration of Creativity and Technical Knowledge
2. Diverse Career Opportunities
3. Solving Real-World Problems
4. Teamwork and Collaboration
5. Project Management and Implementation Skills
6. Engagement with Innovation and Technology
7. Sustainability and Environmental Awareness
8. Opportunity for Entrepreneurship





The Role of the Industrial Design Engineer

Core Duties and Responsibilities

Analysis: Evaluates user needs and behaviors.

Design Development: Generates creative ideas and develops sketches and alternative design solutions.

Technical Feasibility Analysis: Assesses material selection, engineering calculations, and manufacturing possibilities.

Prototyping and Testing: Develops physical or digital prototypes, conducts testing, and proposes improvements.

Interdisciplinary Collaboration: Works in coordination with engineering, software, marketing, and production teams.

Sustainability Focus: Evaluates the environmental impact of products and develops sustainable solutions.

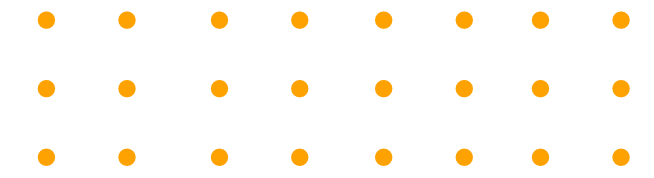


Functional, Aesthetic, and Sustainable Solutions

From Design to Production: Industrial Design Engineering



The design process begins with sketching and continues with the transformation of ideas into three-dimensional models through the use of appropriate CAD and CAE software. This process is followed by prototyping and testing stages.



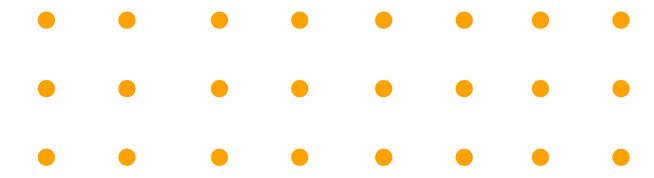
Educational Content and Objectives

Gazi IDE aims to educate the innovative design engineers of the future through a comprehensive educational program that provides both theoretical knowledge and practical experience.

The curriculum covers, in addition to fundamental engineering courses, subjects such as industrial design, product development, ergonomics, materials science, computer-aided design (CAD), and manufacturing technologies.



Shaping the Future by Integrating Creativity and Technology



Educational Content and Objectives

Students engage in applied projects in various design studios and laboratories to enhance their creative problem-solving skills.

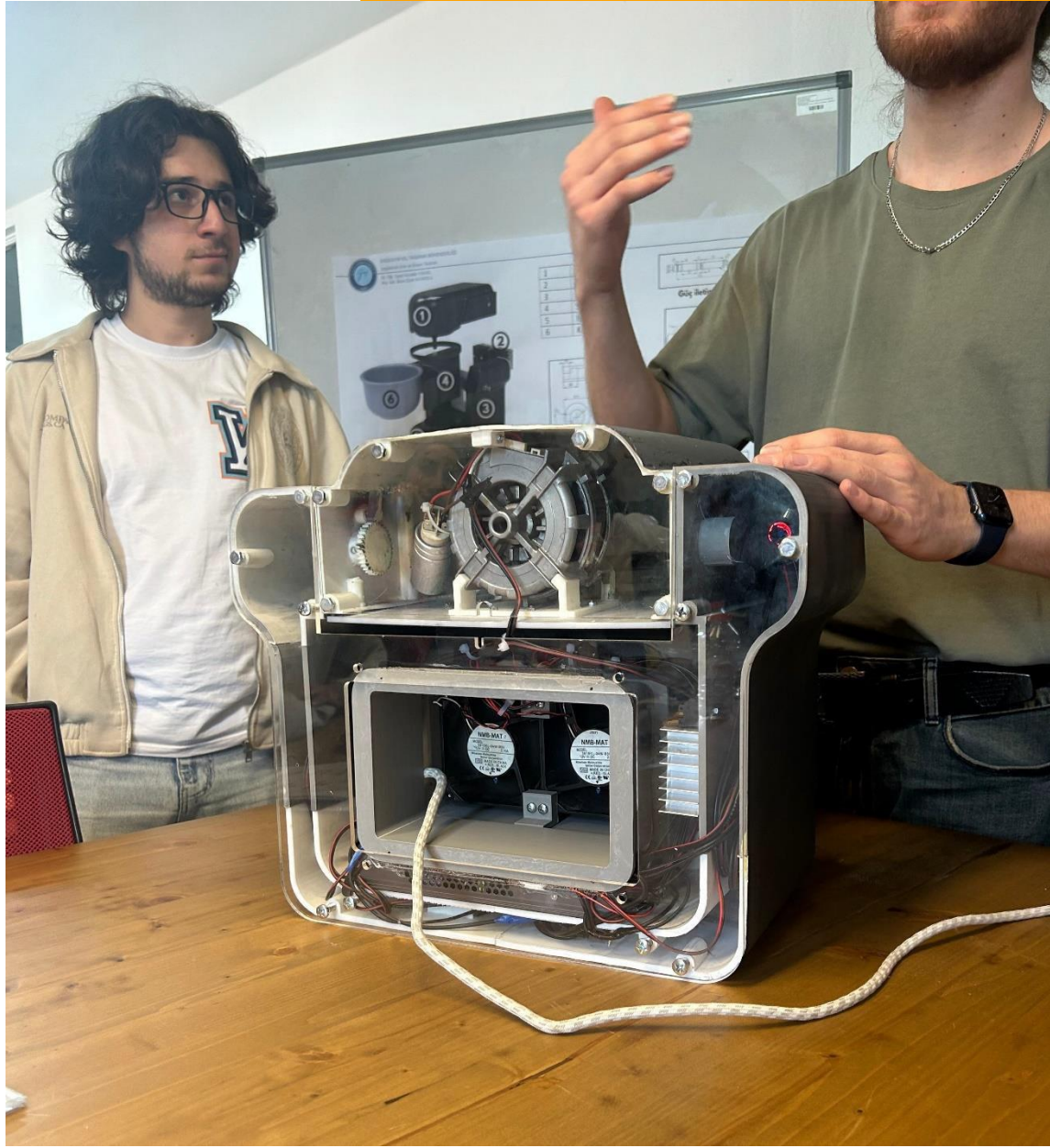
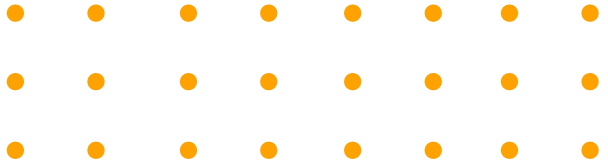
In addition, through workplace training and internship programs, they interact directly with industry and reinforce their theoretical knowledge through real-world applications.

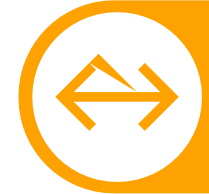
This holistic approach enables graduates to become competitive and successful in both national and international contexts.



The Power that Transforms Ideas into Products

Educational Content and Objectives





CURRICULUM UPDATED IN LINE WITH EMERGING TECHNOLOGIES AND INDUSTRY NEEDS

Gazi IDE continuously updates its curriculum in line with the requirements of the modern era, aiming to provide students with the most up-to-date and comprehensive education in response to rapid technological advancements and global changes.

Curriculum content is regularly revised in accordance with emerging technologies and industry demands, with a strong emphasis on applied courses that integrate theoretical knowledge with practical experience.

In the fields of engineering and design, laboratory and workshop facilities are continuously enhanced to offer students industry-integrated educational opportunities.

Through international collaborations and projects, students gain a global perspective, and graduates are well-prepared to become competitive members of the workforce.



ACADEMIC STAFF

- 8 Professors
- 1 Associate Professor
- 5 Assistant Professors
- 4 Research Assistants



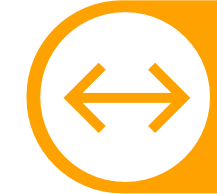
Entrance Ranking

The Industrial Design Engineering Department of Gazi University has attracted attention with its consistently strong admission rankings during university placement periods between 2020 and 2024.

The department has experienced a steady increase in demand each year, with rising preference rates among prospective students. This upward trend has been sustained through its high-quality educational approach, strong academic staff, and well-established collaborations with industry.

Entrance Rankings and Base Scores Over the Last Five Years

	Ranking	Cut-off Score
2020	194,869	327.95
2021	185,530	288.8
2022	148,947	366.73
2023	120,192	392.53
2024	109,841	376.33



STUDIOS AND LABORATORIES

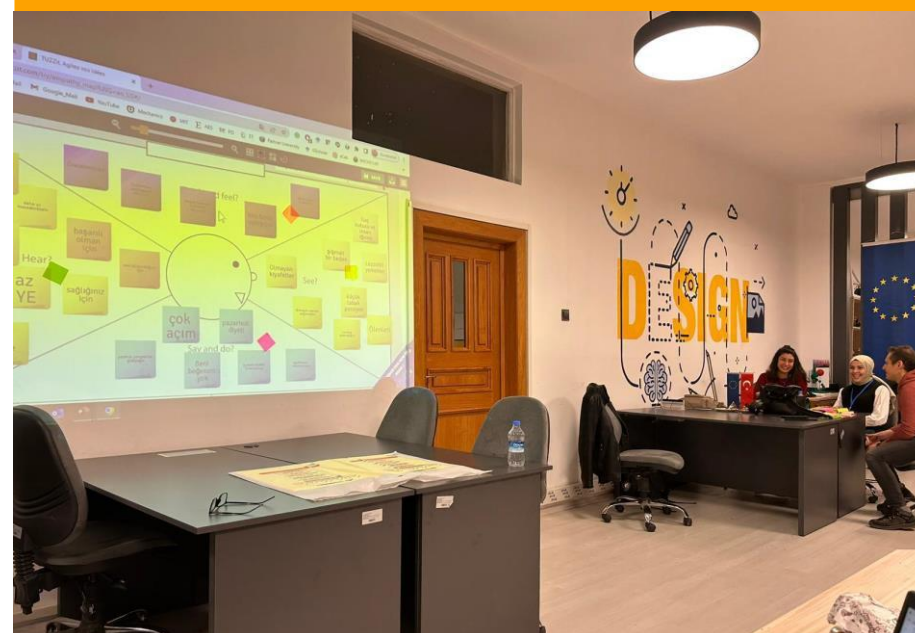
DESIGN STUDIO

Design courses are primarily conducted in this studio. The studio consists of two sections: in the first section, project ideas are reviewed and evaluated, while in the prototyping section, ideas are transformed into physical prototypes using approximately 10 FDM 3D printers.



VIRTUAL REALITY LABORATORY IN DESIGN

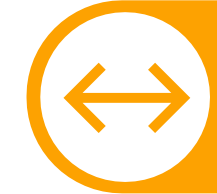
Three-dimensional modeling courses and certain technical elective courses are conducted in this laboratory. A total of 20 computers and VR headsets are available for students during the course process.



3D-CEN LABORATORY

CAD, CAE, and CAM courses (modeling and analysis) are primarily conducted in this laboratory. A total of 20 computers, along with a meeting area located at the rear of the laboratory, are available for students' use..





STUDIOS AND LABORATORIES

COMPUTER LABORATORY

Three-dimensional modeling courses and certain technical elective courses are conducted in these laboratories. A total of 80 computers across the department's laboratories are available for students' use during the course process.



TECHNICAL DRAWING LABORATORY

In addition to technical drawing courses, certain activities of the Design Engineering student community are also conducted in this laboratory.



REVERSE ENGINEERING LABORATORY

The laboratory is equipped with FDM-based 3D printers, including 3Dison Pro and uPrint SE, as well as a Multi-Jet Printing (MJP) system, the Objet30 Prime. In addition, an Aicon SmartScan 3D scanning device is available.



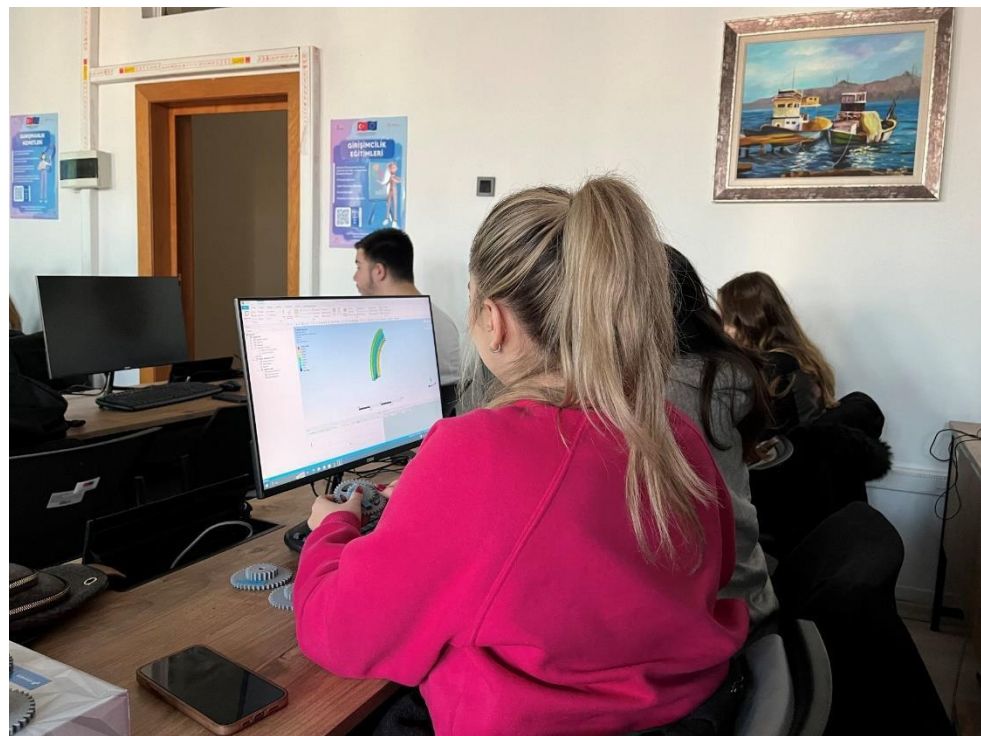


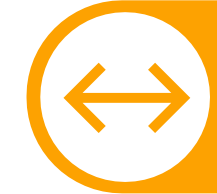
DESIGN STUDIO



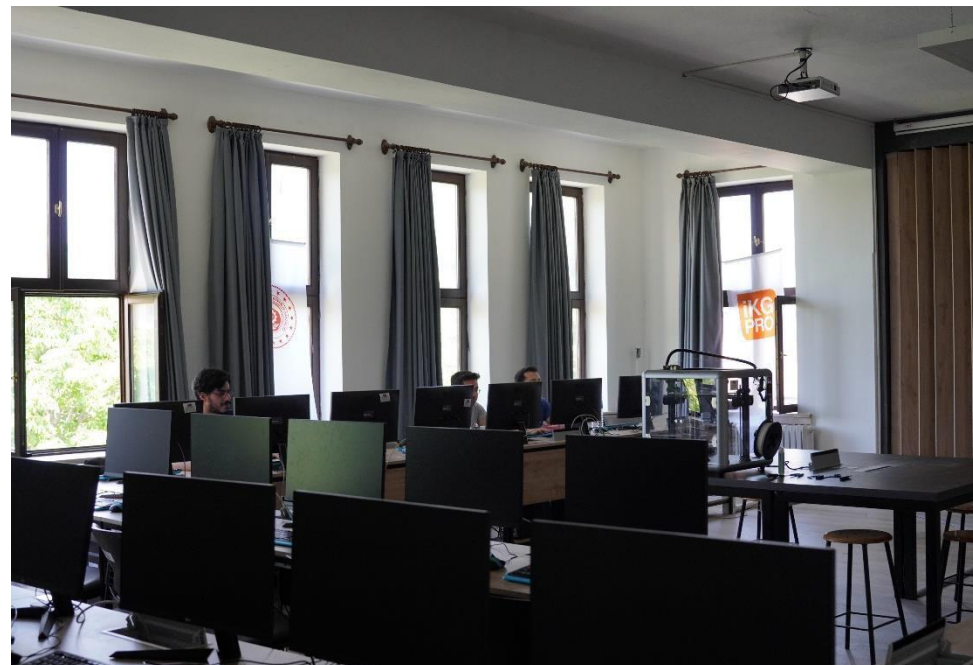


3D-CEN LABORATORY





VIRTUAL REALITY LABORATORY IN DESIGN



The Virtual Reality Laboratory offers students the opportunity to experience design processes in an immersive, three-dimensional environment.

It enables students to evaluate ergonomics and test user experience-oriented designs within a virtual setting.

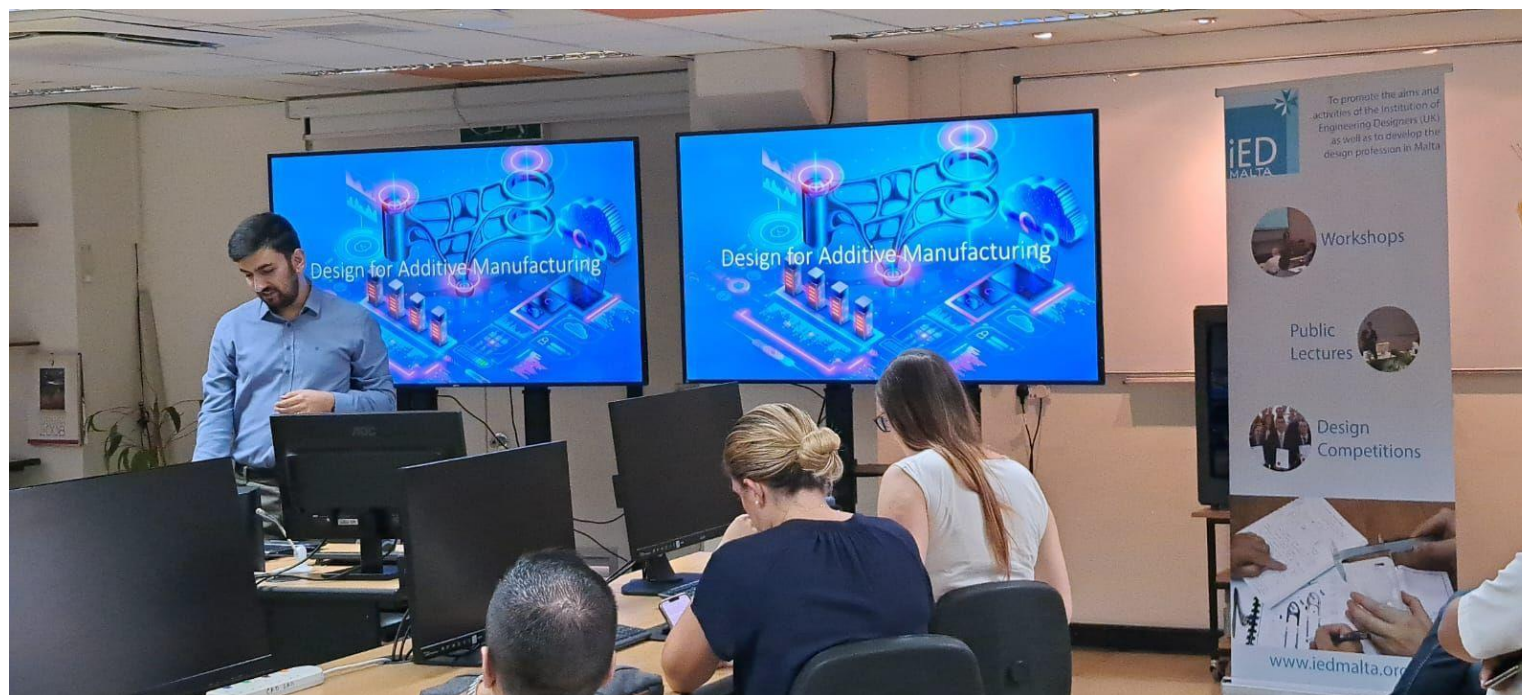


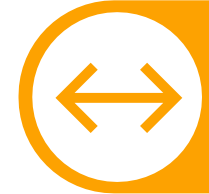


CAD/CAE LABORATORY



Erasmus+ Study and Traineeship Mobility

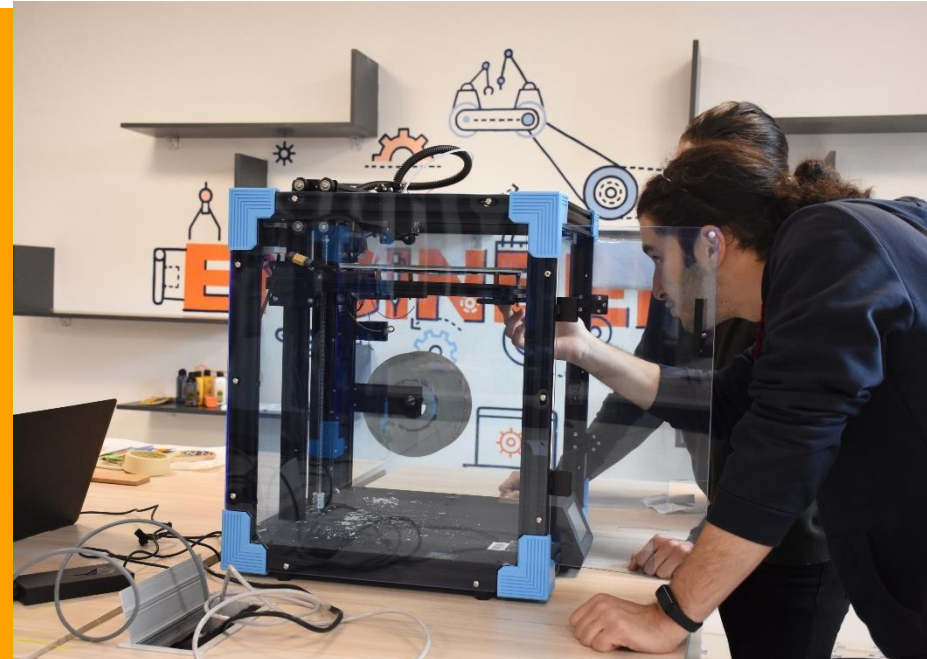




EXTRACURRICULAR ACTIVITIES

DESIGN COMPETITIONS

Design competitions are organized focusing on various CAD software, such as Fusion 360, Siemens Solid Edge, SolidWorks, and AutoCAD.



SOFTWARE WORKSHOPS

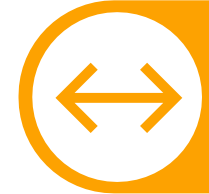
Design competitions are organized focusing on various CAD software, including Fusion 360, Siemens Solid Edge, SolidWorks, and AutoCAD.



3D PRINTING WORKSHOPS

Workshops are conducted on different 3D printing technologies available in the department, such as FDM, SLA, and PolyJet.





EXTRACURRICULAR ACTIVITIES

INTERNATIONAL TRAINING PROGRAMS

Within the framework of international projects conducted by the department, training activities with international participation are organized in various fields.



SOFTWARE WORKSHOPS

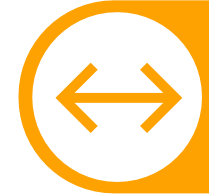
Design competitions are organized using various CAD software, including Fusion 360, Siemens Solid Edge, SolidWorks, and AutoCAD.



INDUSTRY SEMINARS

Founders from companies operating in various sectors share their success stories with students and convey their professional experiences.





TECHNICAL VISITS





COMPETITIONS AND EXHIBITIONS

TEKNOFEST COMPETITION ACHIEVEMENTS

Each year, several teams from our department participate in TEKNOFEST across different categories. In addition to numerous finalist teams, our students have achieved second-place rankings and received Best Presentation awards.



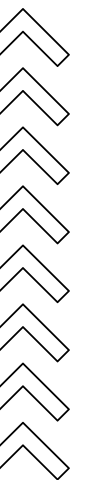
GRADUATION PROJECT EXHIBITIONS

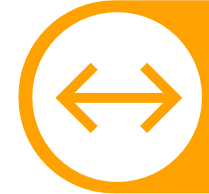
The Graduation Projects Exhibition is held each semester in the foyer area of the Taşkent Building of our faculty.



STUDENT PROJECT EXHIBITIONS

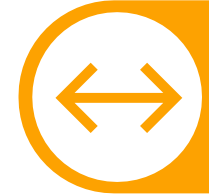
Student projects produced within design courses are exhibited in front of the Dursun Önkuzu Building of our department.





COMPETITIONS AND EXHIBITIONS





SOCIAL ACTIVITIES

LÖSEV AWARENESS EVENT

Social responsibility projects are carried out under the leadership of the Design Engineering Society (TMT) executive team.



OUTDOOR ACTIVITIES

Outdoor activities are organized within the framework of international projects conducted by the department.



OPEN-AIR CINEMA EVENT

TMT aims to establish the open-air cinema event, which has been organized for the past two years, as a traditional activity.





ALUMNI

Tofaş'ta Çalışan Mezunlarımız ile

MEZUNLAR SÖYLEŞİSİ

Gamze Toktamış
Tofaş - Dış Trim Tasarım Mühendisi

Misra Nur Özcan
Tofaş - Tasarım Mühendisi

20 ŞUBAT
20:00

Sen de mezunlarımızın tecrübelerini öğrenmek istiyorsan bize katıl!



ENDÜSTRİYEL TASARIM MÜHENDİSLİĞİ

MEZUNLAR SÖYLEŞİSİ

1 Şubat Çarşamba · Saat: 20:00

Kardelen İnce
Tasarım Mühendisi

Asilhan Uğur
Proje Mühendisi

Kayıt için formu doldurmanız gereklidir.
Sorularınızı formdaki ilgili kısımdan bizlere iletebilirsiniz

ALUMNI TESTIMONIALS



Özge SÖNMEZAY (2023 Graduate)
Mechanical Design Engineer, Odelo Bulgaria EOOD

“ In light of the knowledge gained through the courses in the department’s curriculum, I believe that experiencing how to manage the product design process through semester projects is truly invaluable. The projects we are involved in until graduation make a significant contribution to identifying the sectors we are interested in and to developing our own unique approach to the design process. I am truly glad to have been a part of IDE. ”



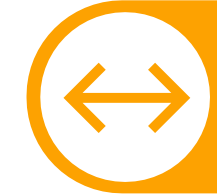
Yusuf SAĞLAM (2021 Graduate)
Mechanical Design Engineer, TİTRA Teknoloji

“ Courses included in the department’s curriculum, such as product design, computer-aided design, additive manufacturing, and reverse engineering, play a significant role in help us develop a comprehensive perspective on the industry. Thanks to the well-equipped laboratories within our department, we are well-prepared to access career opportunities as highly qualified young engineers. ”

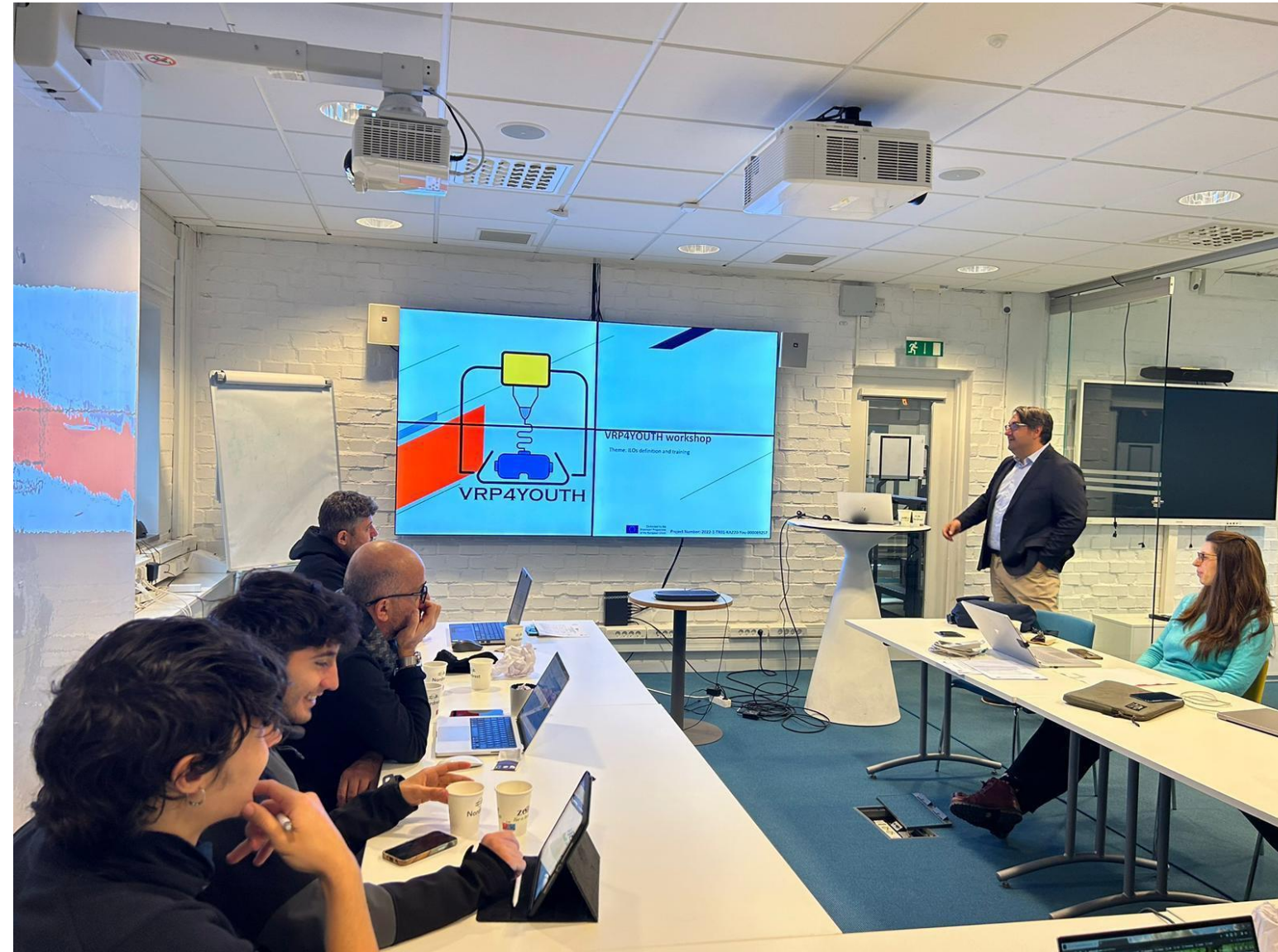


S. Esin COŞKUN (2023 Graduate)
R&D Engineer, SAR Teknik

“ The integration of industrial design with engineering enables the education of industry-ready engineers who meet current market demands. Graduates who successfully complete the program gain a solid foundation to work in engineering departments related to both design and production. This is largely due to the practice-oriented nature of the courses and the six-month internship experience offered within the program. ”

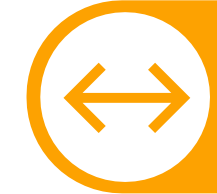


EU PROJECTS AND INTERNATIONAL COLLABORATIONS

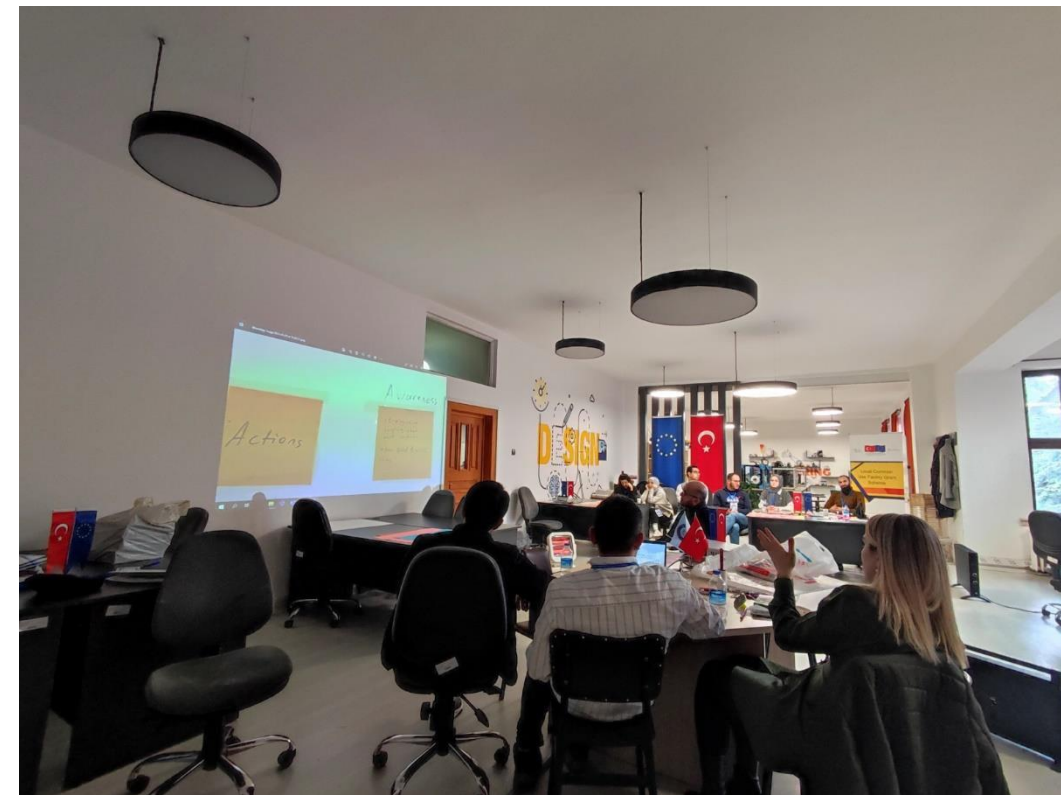
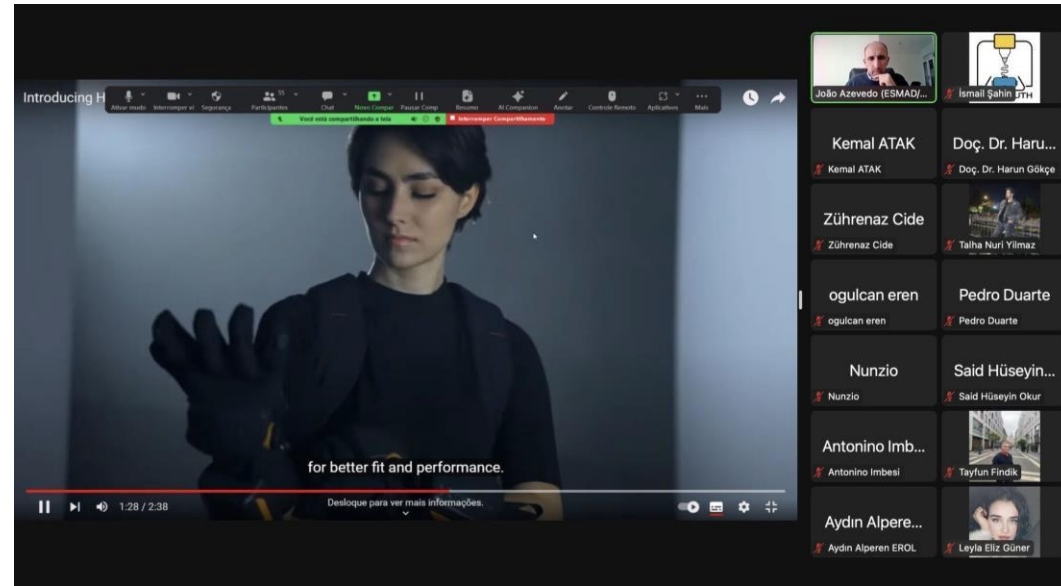


Through European Union projects conducted within our department, students have the opportunity to go beyond the classroom and gain real-world experience. With projects ranging from entrepreneurship and digital design to sustainability and innovation, students not only develop their professional skills but also have the chance to build an international network by collaborating with peers and experts from different countries.

Actively involved in these projects, our department carries out impactful initiatives in collaboration with its European partners and provides its graduates with a strong advantage in establishing a successful career in the global job market.



EU PROJECTS AND INTERNATIONAL COLLABORATIONS

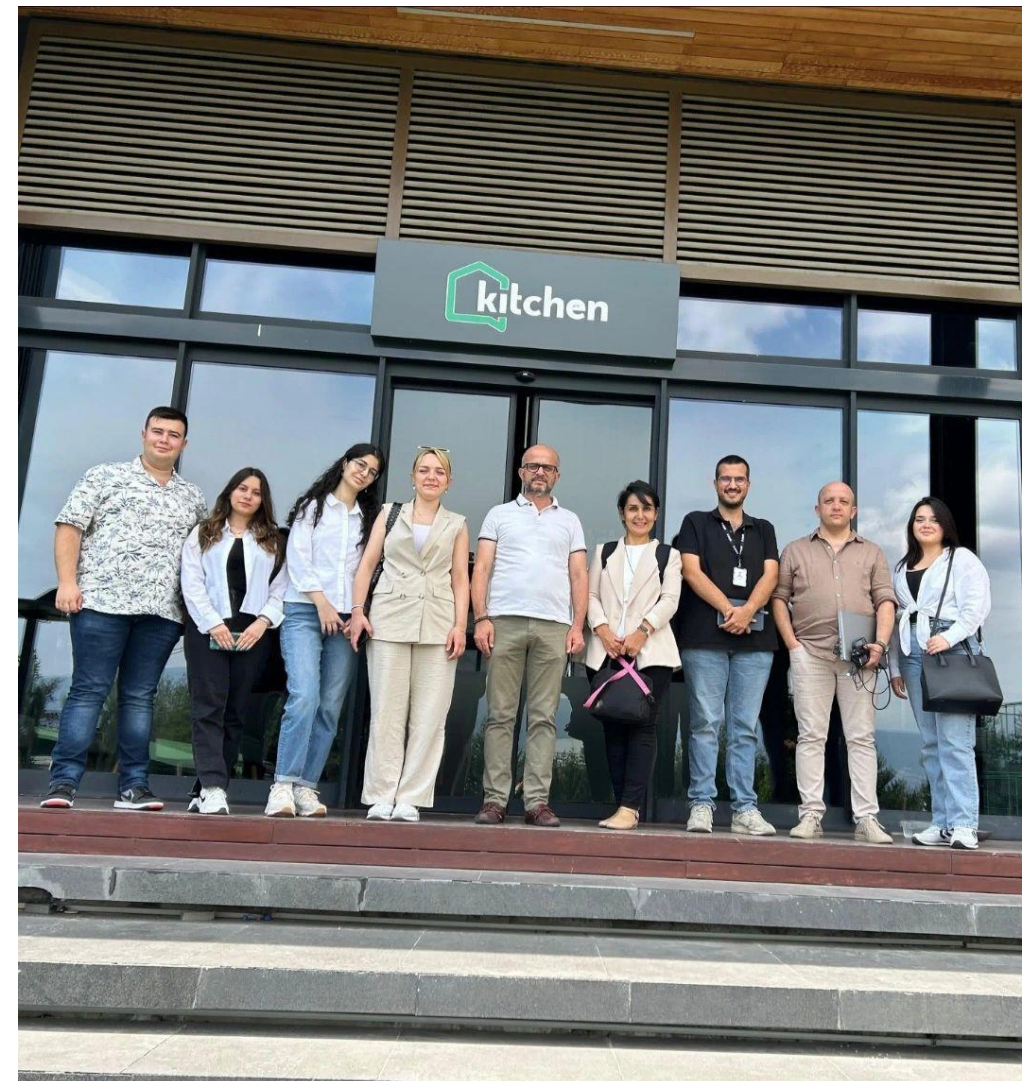




University-Industry Collaborations



The department maintains strong collaborations with leading industrial organizations. Beyond internships and workplace training, we actively develop joint projects with some of the country's most prominent industry partners.



Graduation projects constitute an important component of our university–industry collaborations.

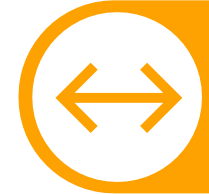
As the IDE Department, we conduct these projects primarily in cooperation with industrial organizations.





University-Industry Collaborations





ENTREPRENEURSHIP ACTIVITIES



We connect our students with leading figures from industry and support their career development through entrepreneurship conferences, career days, and trade fairs organized by the department. These activities enable students to engage directly with industry leaders, expand their professional networks, and stay up to date with the latest developments and innovations in their respective sectors.



Workplace education

Students who have successfully completed all their courses and industry summer internships participate in the workplace education program during one semester of their final year. In addition to the companies affiliated with the university, students may also complete their workplace education in companies of their own choice.

Industry Summer Internship

Students are required to complete a **total of 40 working days** of industry summer internship, consisting of 20 working days in manufacturing and 20 working days in design.



CAREER OPPORTUNITIES

1. Product Design and Development

Industrial design engineers play a crucial role in the design and development of new products. By analyzing user needs and market trends, they develop innovative solutions that combine functionality with aesthetic value.

1.



2. Design Engineering

Engineers in this field manage the transition of products to mass production processes. They aim to enhance manufacturing efficiency, reduce costs, and ensure high product quality.

2.



3. Research and Development (R&D)

Industrial design engineers are involved in R&D projects focused on the development of new technologies and materials. They conduct research to develop innovative solutions and enhance existing products.

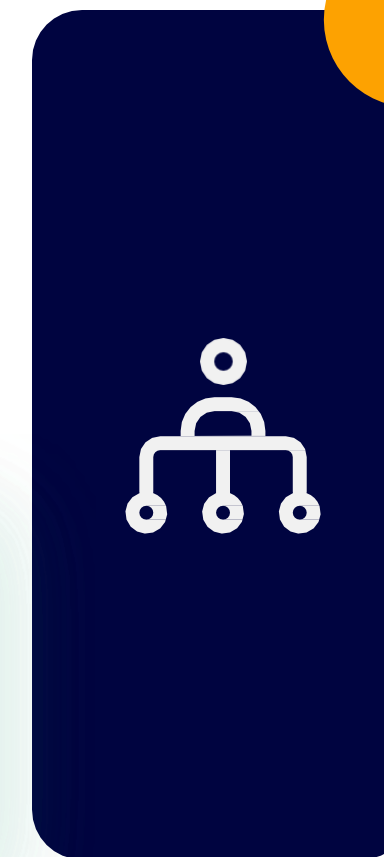
3.



4.



5.



4. User Experience (UX) and User Interface (UI) Design

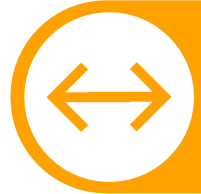
Engineers in this field focus on optimizing product-user interaction. They conduct analyses and testing to enhance user experience and develop intuitive, user-friendly interfaces.

5. Project Management

Industrial design engineers are involved in the planning, management, and execution of large-scale projects. They are responsible for developing project timelines, managing resources, and coordinating multidisciplinary teams.

BRING CREATIVITY AND ENGINEERING TOGETHER!

CONTACT



SOCIAL MEDIA ACCOUNTS



Endüstriyel Tasarım Mühendisliği

@endustriyeltasarmmuhendisli8435 · 451 abone · 25 video

Gazi Üniversitesi - Endüstriyel Tasarım mühendisliği bölümüne aittir. ...devamı

Abone olundu



gazi.tmt

Follow

Message

895 posts

10.5K followers

667 following

Endüstriyel Tasarım Müh.

Community

Gazi Üniversitesi • ETM

Tasarım Mühendisliği Topluluğu

Yönetim ekibi başvurumuz aşağıdaki linktedir!

Emniyet, Milas Sk. No:30, Ankara, Turkey 06560

linktr.ee/gazi.tmt + 1



Endüstriyel Tasarım Mühendisliği

@endustriyeltasarmmuhendisli8435 · 451 abone · 25 video

Gazi Üniversitesi - Endüstriyel Tasarım mühendisliği bölümüne aittir. ...devamı

Abone olundu

Ana Sayfa Videolar Shorts Oynatma listeleri

Son yüklenenler Popüler İlk yüklenenler



Öğrencilerin gözünden Endüstriyel Tasarım Mühendisliği (Soru-Cevap)

10 B görüntüleme · 2 yıl önce



Mezun olmadan patron oldum! Endüstriyel Tasarım Mühendisi anlatıyor..

7,2 B görüntüleme · 2 yıl önce



Endüstriyel Tasarım Mühendisliği mezunları şimdi ne yapıyor? İş olanakları neler?

5,8 B görüntüleme · 2 yıl önce



Endüstriyel Tasarım Mühendisleri İş Bulabilir Mi? Tüm Merak Edilenleri Bölüm Hocaları...

4,2 B görüntüleme · 1 yıl önce



CONTACT



UNIVERSITY LOCATION

Address: Industrial Design Engineering Department, Gazi University, Faculty of Technology, Dursun Önkuzu Building, 2nd Floor 06500 Teknikokullar, Yenimahalle Ankara, Türkiye



Phone Number

+90 312 202 86 59



E-mail Address

tasarim@gazi.edu.tr



Website

<https://tf-etm.gazi.edu.tr/>

A dark, grayscale background image of a graduation ceremony. Graduates in caps and gowns are seen from behind, with their hands raised in the air, some holding their caps. The scene is filled with a sense of celebration and accomplishment. Two horizontal orange lines are positioned above and below the main text.

THANK YOU!

I N D U S T R I A L D E S I G N E N G I N E E R I N G