



# YILDIZ TECHNICAL UNIVERSITY





Yıldız Campus



Davutpasa Campus



# FOREWORD

**Y**ıldız Technical University, with more than a century of experience and academic expertise, has strengthened its well-deserved place among research institutions that are pioneering change on a global scale.

Besides excelling in areas such as engineering, architecture, art, business and economics, Yıldız Technical University continues to shape the future with the

innovative and interdisciplinary approach, fostering an environment of global impact. Together with our leadership in internationalization, and our global network of thousands of alumni, we carry the legacy of Yıldız Technical University across continents.

We cordially invite you to become a part of this unique and dynamic ecosystem at Yıldız Technical University, where a strong integration of science, industry, and innovation has been brought to life.

Prof. Dr. **EYÜP DEBİK**  
RECTOR

# HISTORY

**T**he roots of Yıldız Technical University trace back to its establishment in 1911, with the primary goal of training progressive technicians to accelerate development. After 1923, the university began to recruit staff to support the advancements of the young republic, particularly in the field of public works. Quickly transforming programs in machinery, construction, electricity, cadastre, and architecture into comprehensive

engineering disciplines, YTU adopted the principle of continuous renewal and development in parallel with the evolving needs of the country and the emerging global trends. After 1992, the university expanded its educational offerings to include social sciences and art programs, thus emphasizing creativity. YTU has extended its progressive and innovative approach to these areas as well.





**A LONG-ESTABLISHED AND INNOVATIVE  
RESEARCH UNIVERSITY IN THE HEART OF ISTANBUL**

**SMART, GREEN, SUSTAINABLE, AND BARRIER-FREE CAMPUSES**

**ACADEMICS RANKING IN THE TOP 2% ACCORDING TO ELSEVIER CITATION METRICS**

**MORE THAN 300 WORLD-CLASS RESEARCH LABORATORIES**

**LEADERSHIP IN CO-OPERATIVE EDUCATION (CO-OP) AND  
UNIVERSITY-INDUSTRY COOPERATION**

**THE DISTINCTION OF BEING TÜRKİYE'S FIRST CLEAN ENERGY INSTITUTE**

**RANKING IN THE TOP 3 IN TÜRKİYE FOR ACADEMIC PERFORMANCE IN ENERGY  
& FUELS, MECHANICAL ENGINEERING, ARCHITECTURE, ENVIRONMENTAL  
ENGINEERING AND CIVIL ENGINEERING**

**IN THE UNIVERSITY SATISFACTION SURVEY, AS PER THE STUDENTS'  
VOTES, THE INSTITUTION RANKED FIRST IN TERMS OF SATISFACTION  
WITH THE ADMINISTRATION AND OPERATION**

**STUDENT CLUBS ACHIEVING THE HIGHEST RANKINGS IN  
INTERNATIONAL SCIENCE AND TECHNOLOGY COMPETITIONS**

**THE UNIVERSITY SENDING THE HIGHEST NUMBER OF  
STUDENTS TO FOREIGN EXCHANGE PROGRAMS**

**THE RECOGNITION OF BEING TÜRKİYE'S BEST TECHNOPARK FOR  
THREE CONSECUTIVE YEARS**

**27.949** UNDERGRADUATE  
STUDENTS

GRADUATE STUDENTS **12.958**

MORE THAN **165.000** GRADUATES

**61** UNDERGRADUATE  
PROGRAMS

MASTERS **127**  
PROGRAMS

GRADUATE STUDENT RATIO % **10**



DOCTORATE PROGRAMS 69

72 STUDENT CLUBS

INTERNATIONAL STUDENTS 2518

1764 ACADEMICS

FACULTIES 10

3 INSTITUTES

ADMINISTRATIVE STAFF 668

# FACULTIES & DEPARTMENTS

## FACULTY OF NAVAL ARCHITECTURE AND MARINE ENGINEERING

Naval Architecture & Marine Engineering  
Marine Engineering

## FACULTY OF MECHANICAL ENGINEERING

Industrial Engineering  
Mechanical Engineering  
Mechatronics Engineering

## FACULTY OF ARCHITECTURE

Architecture  
Urban & Regional Planning  
Conservation & Restoration of Cultural Property

## FACULTY OF EDUCATION

Computer Education & Instructional Technology  
Primary Education  
Social Science and Turkish Language Education  
Foreign Languages  
Educational Sciences  
Mathematics & Science Education

## FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING

Computer Engineering  
Electrical Engineering  
Electronics & Communications Engineering  
Control & Automation Engineering  
Biomedical Engineering



## **FACULTY OF ARTS AND SCIENCES**

Western Languages & Literatures  
Physics  
Statistics  
Chemistry  
Mathematics  
Molecular Biology & Genetics  
Turkish Language & Literature  
Humanities and Social Sciences

## **FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES**

Economics  
Business Administration  
Political Science & International Relations

## **FACULTY OF CIVIL ENGINEERING**

Civil Engineering  
Environmental Engineering  
Geomatic Engineering

## **FACULTY OF CHEMISTRY AND METALLURGY**

Bioengineering  
Food Engineering  
Chemical Engineering  
Mathematical Engineering  
Metallurgical & Materials Engineering

## **FACULTY OF ART AND DESIGN**

Communication Design  
Music & Performing Arts  
Art

# GRADUATE SCHOOL OF SCIENCE AND ENGINEERING

## COMPUTER ENGINEERING

Computer Engineering M.Sc.  
Computer Engineering Non-Thesis M.Sc.  
Information Technologies Non-Thesis M.Sc.  
Information Technologies Non-Thesis M.Sc. (English)\*  
Computer Engineering Ph.D.

## AVIONICS ENGINEERING

Avionics Engineering M.Sc. Master of Science  
Avionics Engineering M.Sc. Ph.D.

## COMPUTER EDUCATION & INSTRUCTIONAL TECHNOLOGIES

Computer Education and Instructional Technology M.Sc.  
Master of Science

## BIOENGINEERING

Bioengineering M.Sc.  
Bioengineering Non-Thesis M.Sc.  
Bioengineering Non-Thesis M.Sc. (English)  
Bioengineering Ph.D.

## MOLECULAR BIOLOGY & GENETICS

Molecular Biology & Genetics M.Sc.  
Molecular Biology & Genetics Ph.D.

## ENVIRONMENTAL ENGINEERING

Environmental Engineering M.Sc.  
Environmental Engineering Ph.D.

## ELECTRICAL ENGINEERING

Electrical Power Systems M.Sc.  
Electrical Machines and Power Electronics M.Sc.  
Electrical Engineering M.Sc.  
Electrical Engineering Non-Thesis M.Sc.  
Electrical Engineering Non-Thesis M.Sc.  
Electrical Engineering Non-Thesis M.Sc. (English)  
Electrical Engineering Ph.D.  
Electrical Power Systems Ph.D.  
Electrical Machines and Power Electronics Ph.D.



## **ELECTRONICS & COMMUNICATIONS ENGINEERING**

Electronics Engineering M.Sc.  
Electronics Engineering Ph.D.  
Communications Engineering M.Sc.  
Communications Engineering Ph.D.  
Electronics and Communications Engineering Non-Thesis M.Sc.  
Electronics and Communications Engineering Non-Thesis M.Sc. Evening Ed.  
Electronics and Communications Engineering (English) Non-Thesis M.Sc. Evening Ed.

## **INDUSTRIAL ENGINEERING**

Industrial Engineering M.Sc.  
Industrial Engineering Systems Engineering M.Sc.  
Occupational Safety Non-Thesis M.Sc. Evening Ed.  
Occupational Health and Safety Ph.D.  
Industrial Engineering M.Sc. Evening Ed.  
Engineering Management M.Sc. Evening Ed.  
Technology and Innovation Management Non-Thesis M.Sc. Evening Ed.  
Management Engineering Non-Thesis M.Sc. Evening Ed.

## **ENERGY TECHNOLOGIES (INTERDISCIPLINARY)**

Energy Technologies M.Sc.  
Energy Technologies Ph.D.

## **PHYSICS**

Physics M.Sc.  
Physics M.Sc. (English)  
Medical Radiation Physics Non-Thesis M.Sc.  
Physics Ph.D.  
Physics Ph.D. (English)

## **NAVAL ARCHITECTURE & MARINE ENGINEERING**

Naval Architecture & Marine Engineering M.Sc.  
Naval Architecture & Marine Engineering Ph.D.

## **FOOD ENGINEERING**

Food Engineering M.Sc.  
Food Engineering Ph.D.  
Food Engineering (English) M.Sc.  
Food Engineering (English) Ph.D.  
Food Engineering Non-Thesis M.Sc. Evening Ed.

## **GEOMATIC ENGINEERING**

Remote Sensing and Geographical Information Systems M.Sc.  
Remote Sensing and Geographical Information Systems Ph.D.  
Geomatics M.Sc.  
Geomatics Ph.D.  
Real Estate Appraisal and Development Non-Thesis M.Sc. Evening Ed.

## **MATHEMATICS AND SCIENCE EDUCATION**

Science Education M.Sc.  
Science Education Ph.D.  
Science Education Non-Thesis M.Sc.  
Science Education Non-Thesis M.Sc. Evening Ed.  
Science Education (English) M.Sc.  
Mathematics Education M.Sc.

## CIVIL ENGINEERING

Geotechnical Engineering M.Sc.  
Geotechnical Engineering Ph.D.  
Mechanics of Solids and Structures M.Sc.  
Mechanics of Solids and Structures Ph.D.  
Hydraulic Engineering M.Sc.  
Hydraulic Engineering Ph.D.  
Transportation Engineering M.Sc.  
Transportation Engineering Ph.D.  
Structural Engineering M.Sc.  
Structural Engineering Ph.D.  
Coastal and Harbour Engineering M.Sc.  
Coastal and Harbour Engineering Ph.D.  
Construction Management Non-Thesis M.Sc. Evening Ed.  
Construction Management M.Sc.  
Civil Engineering (English) M.Sc.  
Civil Engineering (English) Ph.D.  
Construction Materials M.Sc.

## STATISTICS

Statistics M.Sc.  
Statistics Non-Thesis M.Sc.  
Statistics Ph.D.

## CHEMISTRY

Chemistry M.Sc. (English)  
Inorganic Chemistry M.Sc.  
Physical Chemistry M.Sc.  
Analytical Chemistry M.Sc.  
Organic Chemistry M.Sc.  
Biochemistry M.Sc.  
Chemistry Ph.D. (English)  
Inorganic Chemistry Ph.D.  
Physical Chemistry Ph.D.  
Analytical Chemistry Ph.D.  
Organic Chemistry Ph.D.  
Biochemistry Ph.D.

## CHEMICAL ENGINEERING

Chemical Engineering M.Sc.  
Chemical Engineering Ph.D.

## CONTROL AND AUTOMATION ENGINEERING

Control and Automation Engineering M.Sc.  
Control and Automation Engineering Non-Thesis M.Sc.  
Control and Automation Engineering Non-Thesis M.Sc. (English)  
Control and Automation Engineering Ph.D.

## MATHEMATICAL ENGINEERING

Mathematical Engineering M.Sc.  
Mathematical Engineering M.Sc. (English)  
Mathematical Engineering Non-Thesis M.Sc.  
Mathematical Engineering Non-Thesis M.Sc. (English)  
Mathematical Engineering Ph.D.  
Mathematical Engineering Ph.D. (English)

## MECHANICAL ENGINEERING

Energy M.Sc.  
Energy Ph.D.  
Heat and Process M.Sc.  
Heat and Process Ph.D.  
Manufacturing M.Sc.  
Manufacturing Ph.D.  
Mechanical Design M.Sc.  
Mechanical Design Ph.D.  
Machine Theory and Control M.Sc.  
Machine Theory and Control Ph.D.  
Automotive Engineering M.Sc.  
Automotive Engineering Ph.D.  
Mechanical Engineering Non-Thesis M.Sc. Evening Ed.  
Railway Systems Non-Thesis M.Sc. Evening Ed.



## **MECHATRONICS ENGINEERING**

Mechatronics Engineering M.Sc. (English)  
Mechatronics Engineering Non-Thesis M.Sc. (English)  
Mechatronics Engineering Non-Thesis M.Sc. (English)\*  
Mechatronics Engineering Ph.D. (English)

## **METALLURGICAL & MATERIALS ENGINEERING**

Materials Science and Engineering M.Sc.  
Materials Science and Engineering Ph.D.  
Extractive Metallurgy M.Sc.  
Extractive Metallurgy Ph.D.  
Metallurgical and Materials Engineering Non-Thesis M.Sc.  
Non-Thesis Master of Science Evening Ed.

## **ARCHITECTURE**

Computer Aided Architectural Design M.Sc.  
Computer Aided Architectural Design Ph.D.  
Building Research and Planning M.Sc.  
Building Research and Planning Ph.D.  
Building Research and Planning Non-Thesis M.Sc.  
Building Research and Planning Non-Thesis M.Sc. Evening Ed.  
Architectural Design M.Sc.  
Architectural Design Ph.D.  
History and Theory of Architecture M.Sc.  
History and Theory of Architecture Ph.D.  
Architectural Survey and Conservation M.Sc.  
Architectural Survey and Conservation Ph.D.  
Building Science M.Sc.  
Building Science Ph.D.  
Building Physics M.Sc.  
Building Physics Ph.D.  
Building Physics Non-Thesis M.Sc.  
Building Physics Non-Thesis M.Sc. Evening Ed.  
Interior Design M.Sc.  
Housing Production and Construction Management M.Sc.

## **CITY & REGIONAL PLANNING**

Urban Planning M.Sc.  
Urban Planning Ph.D.  
Landscape Planning M.Sc.  
Urban Conservation and Planning M.Sc.  
Urban Regeneration and Planning M.Sc.  
Spatial Organization and Design M.Sc.  
Regional Planning M.Sc.

## **CYBER SECURITY & CRYPTOGRAPHY**

Cyber Security & Cryptography M.Sc.

## **APPLIED URBAN SCIENCE & URBAN INNOVATION**

Applied Urban Science and Urban Innovation (English) M.Sc.

## **DATA SCIENCE & BIG DATA**

Data Science & Big Data M.Sc.

## **BIOTECHNOLOGY**

Biotechnology M.Sc.

## **INTELLIGENT TRANSPORTATION SYSTEMS**

Intelligent Transportation Systems M.Sc.

## **BIOMEDICAL ENGINEERING**

Biomedical Engineering (English) M.Sc.

# GRADUATE SCHOOL OF SOCIAL SCIENCES

## PRINCIPLES OF ATATÜRK & HISTORY OF MODERN TÜRKİYE

Principles of Atatürk & History of Modern Türkiye M.A.  
Principles of Atatürk & History of Modern Türkiye Ph.D.

## WESTERN LANGUAGES & LITERATURES

Translation & Interpreting (French) M.A.  
Conference Interpreting (Non-Thesis) M.A.  
Interlingual & Intercultural Translation Studies Ph.D.

## EDUCATIONAL SCIENCES

Curriculum and Instruction M.A.  
Educational Administration M.A.  
Guidance and Psychological Counselling M.A.  
Curriculum and Instruction Non-Thesis M.A.  
Educational Administration Non-Thesis M.A.  
Guidance and Psychological Counselling Non-Thesis M.A.  
Life-Long Learning and Adult Education Non-Thesis M.A.  
Curriculum and Instruction Ph.D.  
Educational Administration Ph.D.  
Guidance and Psychological Counselling Ph.D.

## ECONOMICS

Economics M.A.  
Economics M.A. (English)  
Modern Monetary Economics Non-Thesis, M.A.\*  
Economics Ph.D.  
Economics Ph.D. (English)

## BUSINESS ADMINISTRATION

Business Administration M.A.  
Human Resources Management M.A.  
Innovation, Entrepreneurship and Management M.A.  
Business Administration Non-Thesis M.A.  
Human Resources Management Non-Thesis M.A.  
Innovation, Entrepreneurship and Management  
Non-Thesis M.A.  
Business Administration Ph.D.

## TURKISH ART DESIGN

Turkish Art Design M.A.

## FOREIGN LANGUAGES EDUCATION

English Language Education (English) M.A.  
English Language Education (English) Non-Thesis M.A.



## **HUMANITIES & SOCIAL SCIENCES**

History M.A.  
Humanities And Social Sciences (English) M.A.  
Philosophy M.A.  
Sociology M.A.  
Cultural Studies (English) Ph.D.  
Philosophy Ph.D.

## **ART & DESIGN**

Proficiency in Arts  
Art and Design M.A.  
Interactive Media Design M.A.  
Museology M.A.  
Music and Performing Arts M.A.  
Art and Design Ph.D  
Music and Performing Arts Ph.D

## **POLITICAL SCIENCES & INTERNATIONAL RELATIONS**

Political Sciences & International Relations M.A.  
Political Sciences & International Relations Ph.D.

## **TURKISH LANGUAGE & LITERATURE**

Old Turkish Language M.A.  
Turkish Literature M.A.  
Turkish Language & Literature Ph.D.

## **PRIMARY EDUCATION**

Preschool Education M.A.  
Primary School Education M.A.  
Primary School Education Non-Thesis M.A.

## **TURKISH & SOCIAL SCIENCES EDUCATION**

Social Sciences Education M.A.  
Teaching Turkish to Foreigners M.A.  
Teaching Turkish to Heritage Learners M.A.  
Turkish Language Education M.A.  
Social Sciences Education Non-Thesis M.A.  
Teaching Turkish to Foreigners Non-Thesis M.A.  
Turkish Language Education Non-Thesis M.A.  
Turkish Language Education Ph.D.



# CLEAN ENERGY TECHNOLOGIES INSTITUTE

**LEADING CLEAN ENERGY RESEARCH,  
INNOVATION & COMMERCIALIZATION**

Development of clean energy technologies based on renewable and alternative energy sources, advancement of knowledge, graduate education, realization of research innovation and commercialization studies are done at YTU CET Institute. CET provides technical, social and cultural solutions based on clean energy technologies to contribute sustainable energy, environment and industry.





## MAIN RESEARCH FIELDS

Hydrogen and Alternative Fuel Technologies  
Energy Storage Technologies  
Renewable Energy Technologies  
Waste-to-Energy  
Smart Grid and Energy Management  
Energy Logistics, Policies and Strategies  
Economic, Social Impact and Sustainability  
Modeling, Simulation and Optimization of Energy Systems



## CET INSTITUTE RESEARCH CENTERS

Energy Efficiency Center  
Hydrogen Research Center  
Battery Research Center (BATLAB)  
Clean Combustion Research Center



## PROGRAM

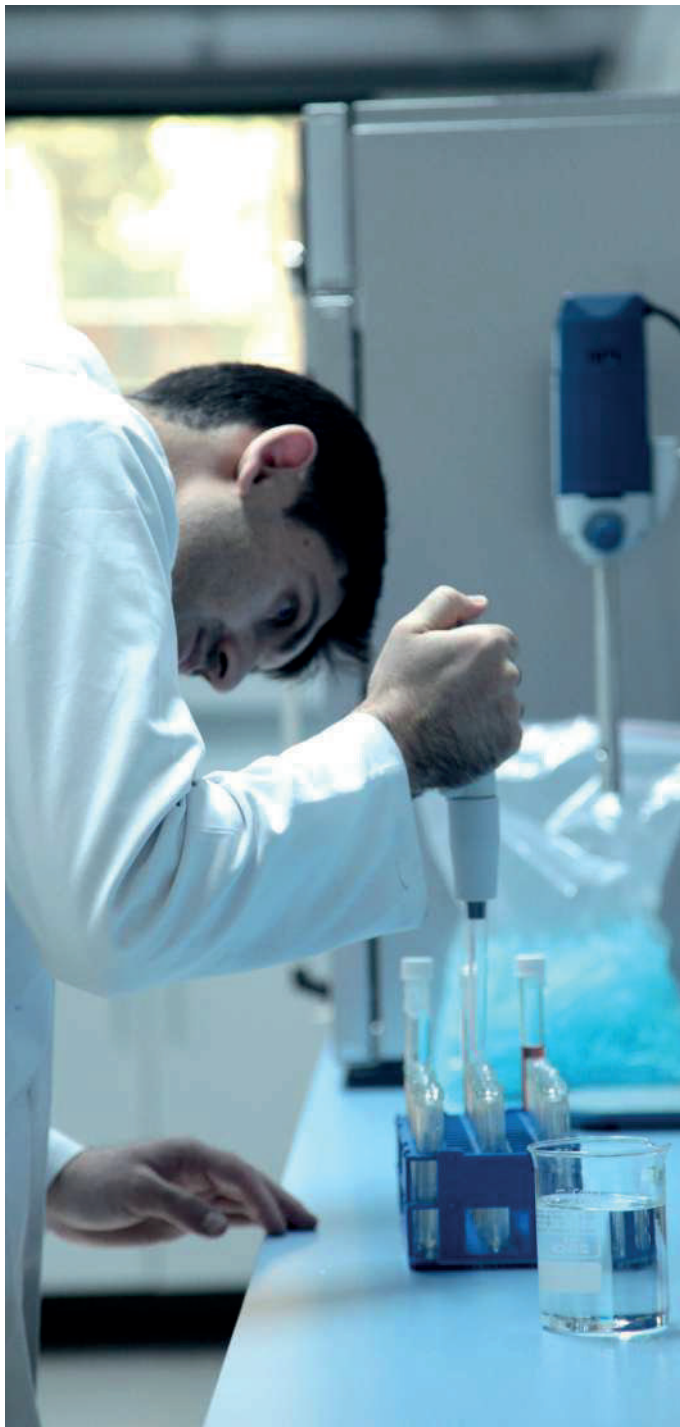
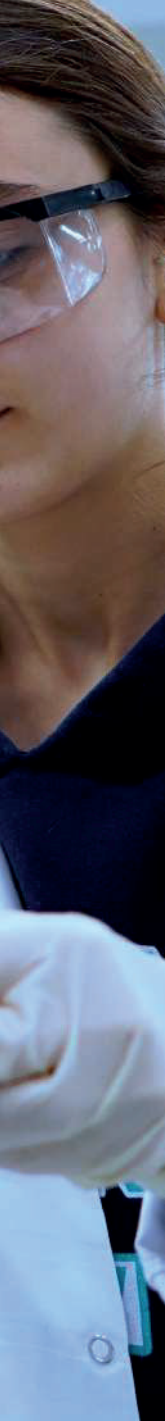
Advanced Energy Technologies M.Sc.  
Advanced Energy Technologies Ph.D.

# INNOVATION AND R&D ORIENTED, APPLIED LEARNING - BASED EDUCATION

**A**s an innovation and R&D-oriented institution, YTU places a strong emphasis on applied learning, aiming to integrate theory and practice. Our educational approach is designed to nurture generations that are not only academically proficient but also socially conscious, contributing to the country's development, embracing collaboration, and continuously generating modern knowledge through technological advancements. A culture of lifelong learning is fostered at YTU, allowing our students to face new life challenges with determination and adaptability. Recognizing that true preparedness for life extends beyond traditional coursework, YTU is committed to offering a distinctive education approach that reflects the spirit of the age.







# CO-OPERATIVE EDUCATION (CO-OP) MODEL ENABLES OUR STUDENTS TO BECOME ACQUAINTED WITH THE BUSINESS WORLD BEFORE GRADUATION

Establishing strong connections with prominent Turkish corporations, YTU prepares its students for the professional business world. Believing in the effectiveness of the 'Learning In Situ' approach in all aspects, YTU provides its students with ample opportunities to gain real-world business experience before graduation.

## WHAT DOES IT ENTAIL?



CO-OP represents a **redefined** and **innovative** version of the traditional **internship**.



The focal point is the harmonization of theoretical knowledge provided by the university with practical **field experience**.



Assuming the role of a bridge between the university and the business world, CO-OP not only introduces students to the business world but **also prepares them for it.**



# WHAT MAKES CO-OP DIFFERENT FROM AN INTERNSHIP?



Internship is mandatory, whereas CO-OP participation is based on a **voluntary basis**. Not all students are required to participate in CO-OP, and those who do not meet the criteria are not typically selected for CO-OP positions.



Students participating in CO-OP take **the elective courses related to the field** provided by the company.



Students have the opportunity to **apply exact theoretical knowledge in the workplace**.



Students who successfully complete the CO-OP program are more likely to **secure employment** upon graduation.

## WHAT ARE ITS BENEFITS?



### EMPLOYERS

- Expanding and enhancing their pool of qualified candidates for human resource needs
- Directly contributing to their workforce by incorporating successful students who are enthusiastic to participate in CO-OP programs



### STUDENTS

- Gaining experience in business
- Consolidate theoretical knowledge through practical application
- Enhance their job opportunities



### UNIVERSITIES

- Connecting employers and students.
- Providing students work experiences and offering employment opportunities
- Providing theory-practice cooperation

# YTU AS AN R&D UNIVERSITY

## *R&D Studies Focusing on Future Technologies*

**A**s a research university, YTU ranks among the top 5 in R&D in Türkiye. YTU students challenge conventional patterns, actively question, and are deeply engaged with information and technology. They are at the forefront of developing technologies that shape the future.

RESEARCH LABS **300+** 

 **20** **TEMATIC**  
RESEARCH GROUPS

RESEARCH AND APPLICATION CENTERS **30** 

CITATIONS **173.577**  
**3.988** PROJECTS  
BROADCASTS **37.188**  
**1.096** PRIZES  
PATENTS **304**



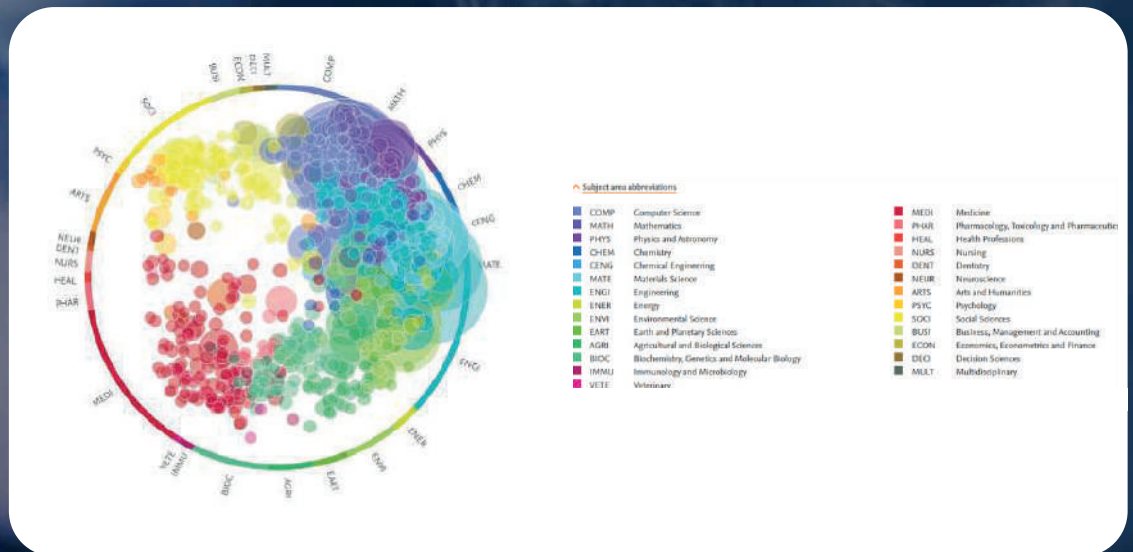
Every year, Yıldız Technical University welcomes thousands of students with an entrepreneurial spirit into its ecosystem, where culture, knowledge meet with technology. At YTU Yıldız Technopark, which is home to Türkiye's leading companies, students have the opportunity to participate in programs like Bootcamps and Hackathons to expand their ventures and can also partake in mentorship and investor meetings through YTU Startup House. Within YTU Yıldız Technopark, entrepreneurs receive support from continuing education centers, lifelong learning initiatives, and entrepreneurial course contents within Yıldız Technical University. YTU excels in four key verticals:

**Collaboration :** The synergy between YTU, Yıldız Technopark Technology Transfer Office, YTU academics, and industry partners positions YTU as a leader in this domain. Numerous projects have been implemented, and in 2023, YTU achieved recognition as the center with the highest number of inventions in Türkiye, boasting nearly 500 national and international patents.

**Innovation:** At YTU, innovative business ideas are transformed into value-added products, with a strong focus on technology and innovation.

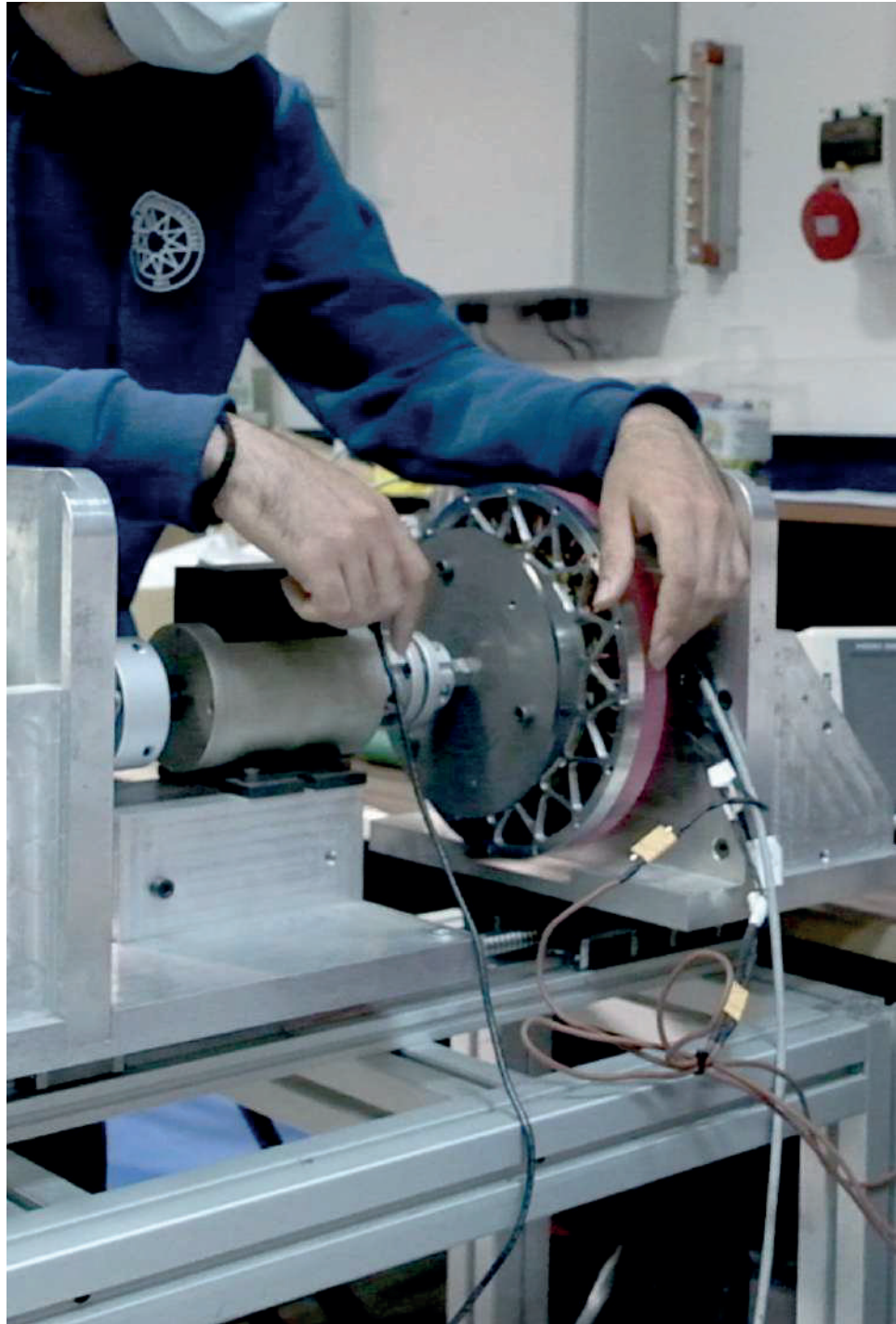
**Technology Transfer Office and Research Centers:** YTU TTO, supported by TUBITAK, plays a vital role in commercializing inventions and innovative products originating from scientific research.

**Commercialization:** This phase encompasses all processes related to transforming developed products and projects for the benefit of society and the country's economy. Commercialization represents an efficient step in academia-industry cooperation at YTU and includes elements such as training, project support, and collaboration.

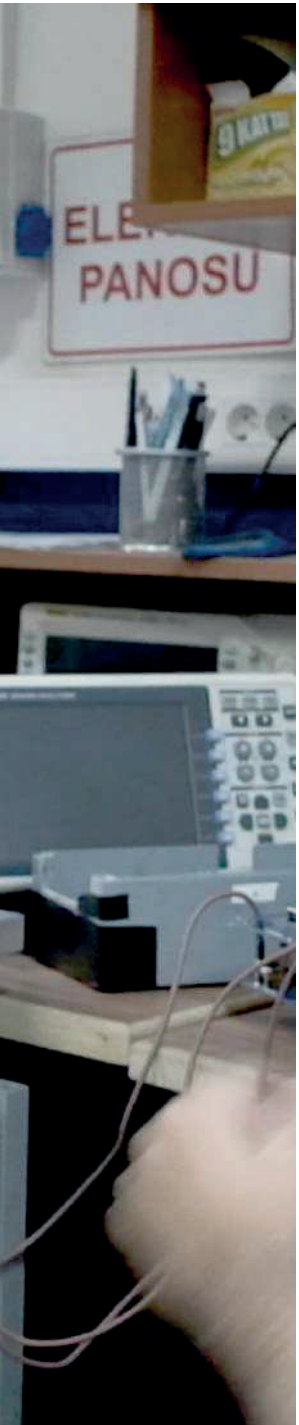


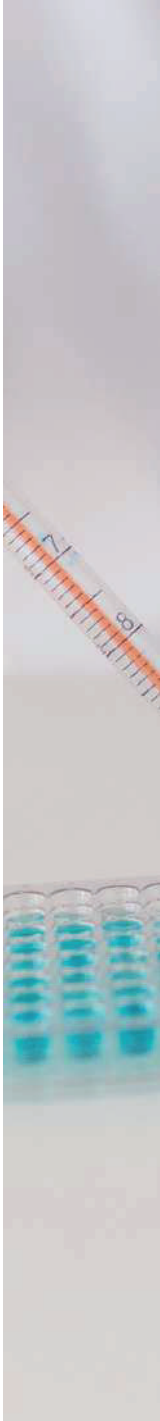
# CLEAN ENERGY

YTU accelerates its activities in accordance with clean energy principles through its research and application centers and laboratory infrastructure, which are part of Türkiye's first Clean Energy Technologies Institute at YTU. The Institute carries out R&D studies not only within the university's framework but also in the context of national/ international interactions and collaborations. Furthermore, while promoting the on-campus use of electric vehicles remains a priority, YTU is also committed to reducing its carbon footprint by providing electric scooters and bicycles for everyone to use.













# HEALTH & BIOTECHNOLOGY

**Y**TU maintains its expertise in the biotechnology field, proudly contributing to the global scientific output in Türkiye. As part of its commitment to achieving global competitiveness in the areas of health, energy, and biomaterials, YTU engages in the production of medical devices and chemicals for the treatment of diseases. Additionally, YTU develops functional mechanical materials and solar cells.







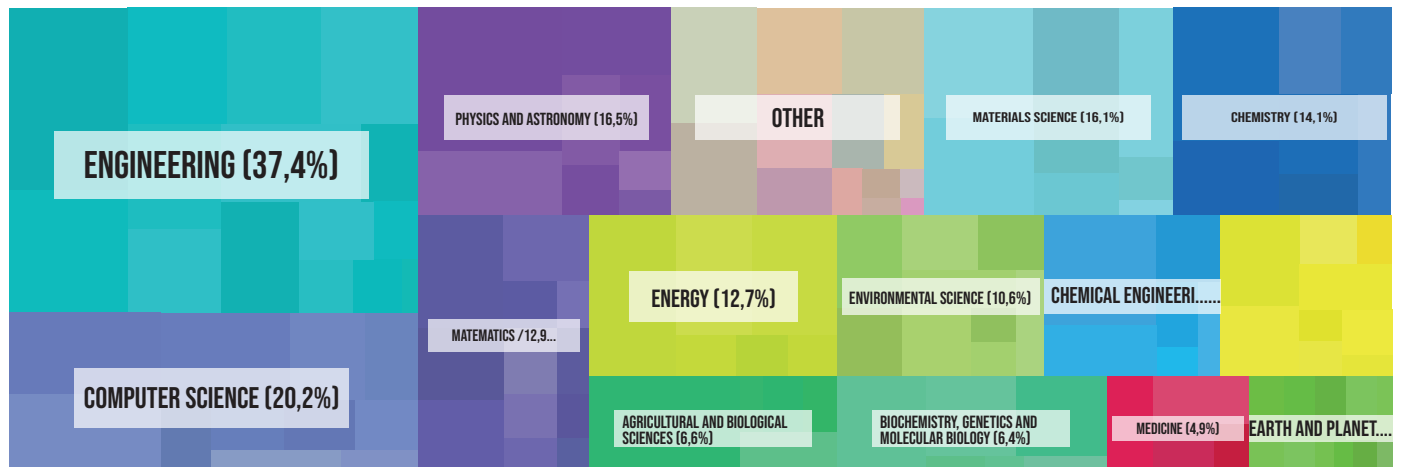
# HYDROGEN TECHNOLOGIES

The Hydrogen Research Center is the first hydrogen-focused research center in Türkiye. Its primary mission is to promote the use of hydrogen as a sustainable energy source through research on hydrogen energy technologies, and to contribute to the development of the hydrogen economy in Türkiye. Besides research and development activities in the field of hydrogen technologies, the center also aims to create and disseminate policy proposals for advancing the hydrogen economy.

Research activities at the center encompass hydrogen production, storage, and utilization, utilizing state-of-the-art laboratories and pilot facilities. Moreover, the Hydrogen Research Center organizes various events and training sessions to facilitate collaboration and knowledge sharing among students, academics, and industrial partners.

# AI TECHNOLOGIES

At YTU, a hub for digital innovation, pioneering studies in artificial intelligence and robotics are conducted with steadfast support from governmental bodies. YTU serves as the home for industry leaders within the YTU Yildiz Technopark. Notably, autonomous and AI-supported technologies are actively being advanced through “Polonom Technology,” a venture founded by faculty members from YTU’s Computer Engineering department.







# YTU YILDIZ TECHNOPARK: A CORNERSTONE OF TÜRKİYE'S TECHNOLOGICAL LANDSCAPE

**A**t YTU, focused studies span a wide range of areas, encompassing defense technologies, clean energy, biotechnology, and digital technologies—key focal points on the global technology agenda. YTU actively contributes to international advancements in blockchain, artificial intelligence, data analytics, nanotechnology, and biotechnology. Moreover, YTU keeps pace with contemporary trends, including the Internet of Behavior, hyper-automation, digital twins, zero trust, Industry 4.0, quantum computing, the Internet of Medical Objects, and augmented reality.

ON GOING  
R&D PROJECTS **1400+**  
**1400+** COMPLETED  
PROJECTS

R&D  
PERSONNEL **14.900+**  
**2+** TOTAL EXPORT  
BILLION\$ FIGURES

TEKNOPARK **830**  
NP<sub>s</sub>&IP<sub>s</sub>  
**109M₺+** VENTURE  
CAPITAL  
STARTUPS **210**



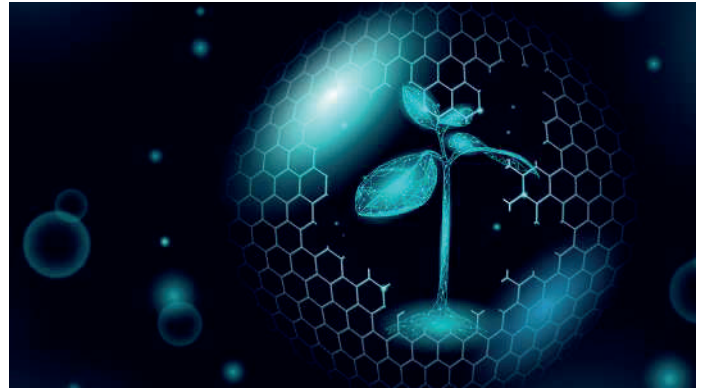




The game world, which is rapidly gaining popularity and boasts a billion-dollar volume, holds a special place in YTU Yıldız Technopark's portfolio. The GamesUp Mobile Game & E-sports Incubation Center stands as one of Türkiye's premier programs and serves as the foremost destination for individuals and teams seeking to develop products and services within this field.

## *fintech*

Ambitious about FinTech, the world of digital finance, YTU Yıldız Technopark fosters collaborations between companies and startups at the forefront of the finance ecosystem. The 'FIDE Acceleration Program,' designed to support initiatives aspiring to become global companies, encompasses various programs tailored specifically for startups.







Addressing digital solutions in the insurance industry, Insurtech is a topic of significant importance within YTU Yıldız Technopark. In partnership with YTU Yıldız Teknopark and one of its companies, Insurtech HUB, Türkiye's first International Insurance Technologies Summit was hosted. YTU Yıldız Technopark aims to enhance the 'Insurtech Startup' ecosystem, fostering increased collaboration between insurance sector stakeholders and technology companies.

YTU Yıldız Technopark, Türkiye's most influential technopark in the medical devices sector, welcomes entrepreneurs, academics, and all stakeholders in the healthcare field through its Healthtech program. This program aims to bring together innovative ideas, offering not only training and mentoring but also support in the form of incentives and grants.





# YTU INTERNATIONAL

***YTU officially ranks #1 for international exchange – sending more students abroad than any other university in Türkiye!***

**Y**TU, through its exchange programs available to both students and staff, aspires to cultivate its members into global citizens by fostering a heightened sense of global awareness. As the top-ranking university in Türkiye for sending the most students abroad via the Erasmus+ Program, YTU offers various exchange opportunities, including national programs like Farabi and Mevlana, as well as the international FreeMover program. Furthermore, YTU promotes intercultural interaction through mutual cooperation and exchange programs with countries outside the European Union.

**700+ AGREEMENTS**  
**PARTNERS 300+**  
**TOTAL GRANT 1.500.000 €**

**700+ OUTGOING STUDENTS**  
**INCOMING STUDENTS 300+**







# WHERE CAN YOU GO ON EXCHANGE?

## ERASMUS+ PROGRAM UNIT

Germany	Hungary	Finland	South Africa	USA
Poland	Belgium	Russia	Kosovo	Canada
Italy	Croatia	Serbia	Nepal	Australia
Spain	Netherlands	Ireland	Panama	Japan
France	Latvia	Scotland	Azerbaijan	Singapore
Portugal	Slovakia	Norway	Ukraine	Malaysia
Czech Republic	Lithuania	Benin	Jordan	Brazil
Romania	North	Bosnia and	Georgia	Indonesia
Greece	Macedonia	Herzegovina	Moldova	South Korea
Bulgaria	Slovenia	Algeria	Albania	
Austria	Denmark	Dominican Republic		
Sweden	Estonia	Morocco		



# MEMORANDUM OF UNDERSTANDINGS (MoU)








Finland	Germany	Malaysia	Netherlands
France	Indonesia	Mongolia	Egypt
England	India	Uzbekistan	Somalia
Italy	South Korea	Pakistan	Libya
Kosovo	Georgia	Russia	USA
Latvia	Iran	Sri Lanka	Mexico
Poland	Israel	Thailand	Colombia
Serbia	Japan	China	Azerbaijan
Ukraine	Kazakhstan	Albania	Gambia
Bosnia and Herzegovina	Kyrgyzstan	Austria	United Arab Emirates
	Canada	Denmark	

**T**he Erasmus+ Program offers a unique opportunity for YTU students to gain international experience and exposure to diverse academic and cultural perspectives, thereby contributing to enhance their personal and professional growth. Participation in the Erasmus+ Program equips YTU students with valuable language skills and cross-cultural communication abilities, which are increasingly vital in today's globalized world.

**Y**TU consistently ranks as the top university in Türkiye for sending the highest number of students abroad through the Erasmus+ Program, YTU demonstrates its commitment to providing its students with the highest quality international educational opportunities.

**Y**TU extends its dedication to fostering intercultural exchange and global awareness through various national and international exchange programs, available to both students and staff.

# SOME OF OUR PARTNERS IN INTERNATIONAL PROJECTS

PROJECT NAME	PARTNERS
 <p>Circular Economy for the Sustainable Earth Spheres-Geosphere, Biosphere,Hydrosphere &amp; Atmosphere</p>	<p>KU Leuven Fundacion Instituto Tecnologico De Galicia University of Vigo The Lower Danube University Technical University of Crete University of Leoben</p>
 <p>EmpOweR Students as the agents of cHange</p>	<p>University of Padua Vienna University Budapest University of Technology and Economics WSB University</p>
 <p>Enhancing Sustainability of PhotopolymERs ANd phoToinduced prOcesses</p>	<p>Polytechnic University of Turin University of Montpellier University of Upper Alsace University of Leoben Imperial College of Science Technology and Medicine</p>
 <p>AgriPV system with climate, water and light spectrum control for safe, healthier and improved crops production</p>	<p>Technical University of Denmark The University of Sheffield</p>
 <p>Smart Building Sensitive to Daily Sentiment</p>	<p>Aalto University University of Trento Polytechnic University of Catalonia</p>
 <p>Energy Communities excellence Hubs: catalyzing energy innOvation ecosystems</p>	<p>Aristotle University of Thessaloniki Nova University Lisbon</p>
 <p>Integration of Advanced Experiments, Computation and Data for Innovation in Freeze Casting and Advanced Porous Structures</p>	<p>CNR Italy International Hellenic University</p>



## PROJECT NAME



Erasmus+

Redesigning Introductory Computer  
Programming Using Innovative Online Modules

Tallin University  
Universita Degli Studi di Palermo  
University of Ljubljana  
Burgaski Svoboden Universitet



Erasmus+

Physical and Mental Awareness for University  
Students

University of Palermo  
Lisbon University



Erasmus+

Global Beats in Sports Training

CERC - Community Educational Research Center  
Youth Basketball Club "Belgrade"



Erasmus+

Multicultural Classrooms: Inclusive  
Learning and Teaching in Higher Education

Transilvania University  
Ghent University of Applied Science  
Sofia University  
Czech University of Life Sciences Prague  
San Jorge University



Erasmus+

The Agripreneurship! MAPs for NEETs

Barcelona Academy  
Forest Science and Technology Centre of Catalonia  
Academy of Technical Vocational Studies Belgrade



Autonomus Network System With Specialized  
And Integrated Multi-sensor Technology For  
Dynamic Monitoring Of Marine Pollution

Malta College of Arts  
Science and Technology University of Cape Town



Optimization of Quay Walls with Passive Side  
Reinforcement by Implementing Smart  
Solutions

Oryx Universal College  
MAG Engineering Services



Novel Inhibitors targeting DXR in Neisseria  
Gonorrhoeae

Fraunhofer IME  
Mahidol University



Accurate and Sensitive Determination of  
Lead, Cadmium and Nickel in Environmental  
Samples by Slit Quartz Tube Flame Atomic  
Absorption Spectrometry

Odessa Polytechnic State University



Formulating Functional Food Additives Based  
on Lactic Acid Bacteria and Their Metabolites  
with Unique Properties to Extend Shelf Life  
and Provide Pro-Health Benefits to Food  
Products

Institute Of Biochemistry And Biophysics  
Polish Academy Of Sciences

# SUSTAINABLE GREEN CAMPUS

## FULFILLING OUR RESPONSIBILITIES FOR THE FUTURE OF THE WORLD

### ***The first state university to receive Zero Waste Certificate***

**T**he first state university to receive a Zero Waste Certificate, YTU operates based on the principle of 'Value for the environment, Value for people.' The university carries out educational and research activities focusing on five crucial subjects: campus and infrastructure, energy and climate change, waste, water, and transportation, all in the pursuit of sustainability.

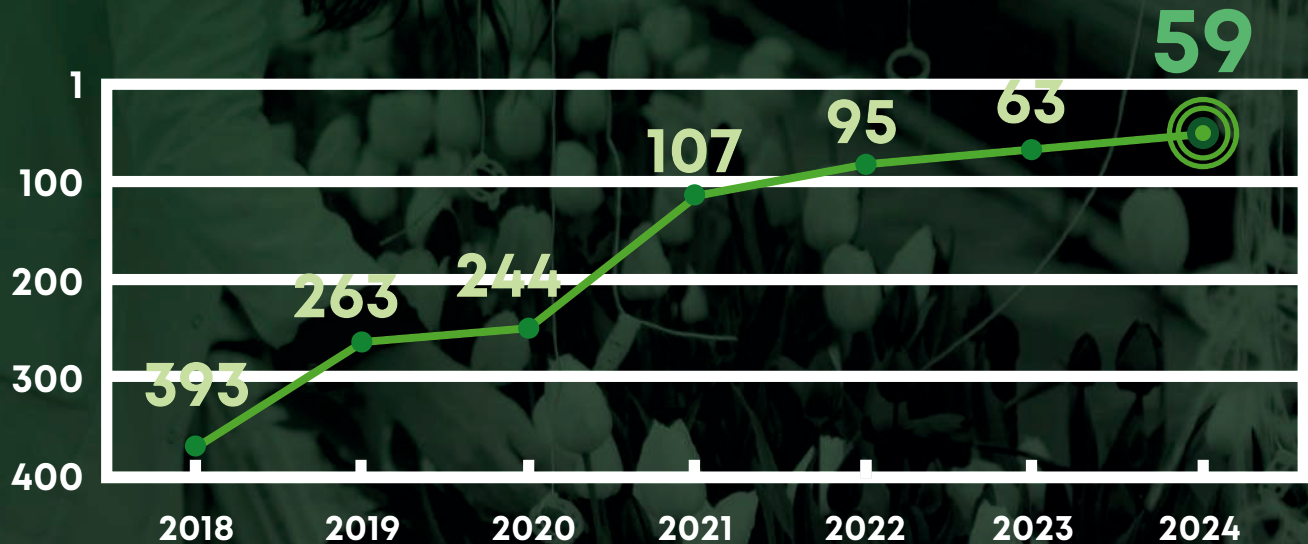
**F**urthermore, YTU has formulated a 17-item Sustainable Development Policy aligned with the United Nations Sustainable Development Goals. As part of its commitment, the university has joined the United Nations Sustainable Development Solutions Network (UNSDSN) as a member organization. Through this affiliation, YTU collaborates with universities worldwide to contribute to the realization of the Sustainable Development Goals.





# GreenMetric

## World University Rankings



# SUSTAINABLE GREEN CAMPUS

*Enhancing Environmental Awareness through Education and Energy Conservation on an Environmentally Friendly Campus*

## **CAMPUS AND INFRASTRUCTURE**

YTU Davutpaşa Campus establishes a distinctive spatial identity set apart from other areas, boasting unique historical and natural assets. With its green campus approach, it embodies the characteristics of sustainability by addressing regional environmental issues, mitigating the impacts of climate change, implementing disaster management strategies, adopting a self-sufficient energy system, managing waste effectively, conserving water, and fostering ecological awareness.

## **ENERGY AND CLIMATE**

Energy consumption is closely monitored throughout the campus, and electronic devices used in renovation and maintenance work are systematically replaced with new-generation equipment designed for reduced energy consumption. The recently commissioned 'Davutpaşa Campus Solar Panel Project' now plays a pivotal role in meeting a significant portion of the campus's electricity needs from on-campus sources. This initiative underscores our commitment to sustainable practices and environmental responsibility.

## **WASTE MANAGEMENT**

At YTU, numerous steps are being taken, supported by R&D studies, to integrate waste into the circular economy. Leveraging the expertise of YTU's academic staff, who are specialists in their respective fields, and encouraging the exchange of ideas with graduates and students engaged in waste management within municipalities and private institutions, there is a continuous effort to enhance waste management practices. YTU holds the distinction of being the first state university in Istanbul to achieve the 'Zero Waste Certificate' in October 2020.



An aerial photograph of a university campus, likely Yıldız Technical University, featuring a large, curved, tiered green area that resembles an amphitheater or a series of terraced gardens. A paved parking lot with several cars is visible in the upper left. The background shows more campus buildings and trees. The entire image has a green color overlay.

## **WATER CYCLE**

The design of green areas at YTU was primarily undertaken to safeguard natural drainage zones, ensuring the continuity of the water cycle and contributing to the reduction of greenhouse gas emissions. Through this approach, YTU aims to play a role in enhancing the city's water cycle. In the water management systems of landscaped areas, the emphasis is on utilizing drought-resistant or low-maintenance plants, improving soil drainage, and ensuring the correct design and implementation of irrigation systems. The campus strives to conserve water through the natural recycling of water, reduced groundwater utilization, efficient water use facilitated by smart device systems, and the selection of xeric plants.

## **TRANSPORTATION**

YTU aims to minimize or neutralize the carbon footprint by decarbonizing its campuses. Efforts are in progress to reduce energy consumption in university structures, open spaces, and transportation areas. As part of the climate change adaptation process, the goal is to transform into a post-carbon university by mitigating the impact of existing carbon dioxide through technology and afforestation.



# CAMPUS LIFE

***"You Cannot Become a Student  
just by **Attending Classes.**"***

**A**t YTU, students experience solidarity, form connections and meet others who share similar interests on common ground. All 67 clubs are student-managed, fostering interaction through the 'Valley of Clubs.' Active student societies cover diverse fields, including the Astronomy Club, Digital Game Development and Digital Acting Club, Sailing Club, and the Physics Club.







# VALLEY OF CLUBS

## ***YTU Student Clubs gather in this valley***

**T**he Valley of Student Clubs, designed to unite student clubs and enhance their physical opportunities, hosts numerous events with its 40 office rooms, technical workshops, art workshop, meeting room, and open event space. This area, where various studies are conducted in categories such as science and technology, sports, social development, career, culture, and art, stands as one of the primary spaces where students come together to socialize at the university.



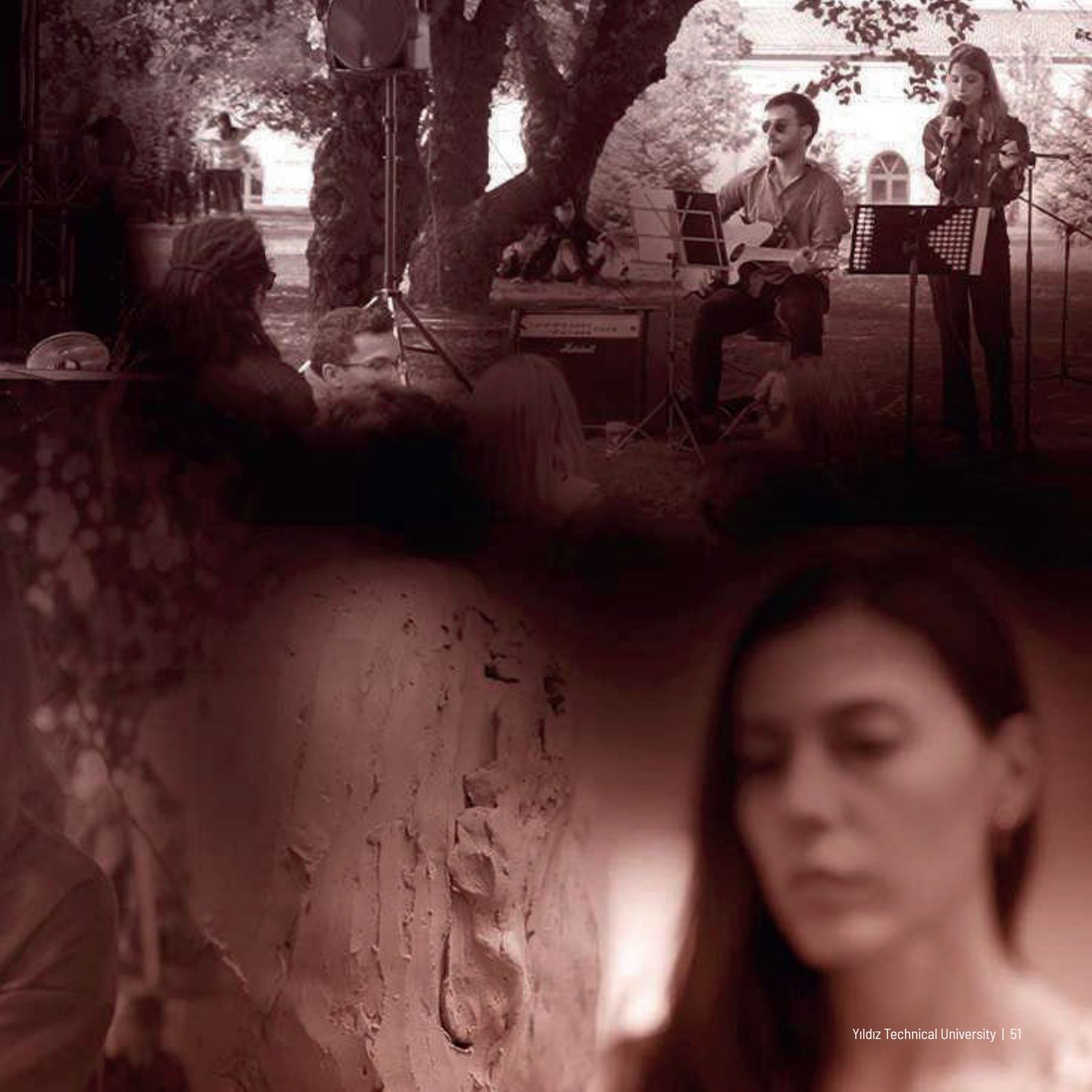


# ARTS AND CULTURE

## *The Door to a Different World: YTU Art Clubs*

**Y**TU campuses host numerous cultural and artistic events throughout the year. In addition, through YTU art clubs, our students carry out their studies encompassing cinema, theater, and music, opening the doors to an entirely different world through various events organized each year. These activities provide students with diverse opportunities to explore and appreciate the arts.







***A campus designed for a healthy future,  
a barrier-free tomorrow: Davutpaşa***





# SPORT

***Sports Facilities Equipped with  
Latest Technology Open to Everyone***

**Y**TU supports sports activities with its athletics track, sports hall, football and basketball fields, fitness center, tennis court, and an indoor Olympic swimming pool, providing services to both students and academics.

**39** BRANCHES **28** DEGREES

# LIBRARY

**Y**TU accommodates two main libraries: the Davutpaşa Campus Central Library and the Yıldız Campus Şevket Sabancı Library. Serving a large internal and external user base, these central libraries offer 7/24 service. Additionally, there are communal study areas and department-specific libraries.

**6.776.017** ELECTRONIC  
SOURCES

PERSON CAPACITY **2.600**

**16.661** THESIS

PRINTED  
BOOKS **196.526**

**20.826** PRINTED  
PERIODICALS





# HEALTH

In the Medico-Social Health Units located on the Beşiktaş and Davutpaşa Campuses, health services are offered to students, academic-administrative staff, their families, as well as retired personnel of our university







# DINING HALL

## ***High Standards of Food Service***

**Y**TU cafeterias serve 10,000 people per day. In addition to providing nutritious and hygienic meals prepared to daily calorie needs, the cafeterias also offer celiac, vegan, and vegetarian menu services.







YILDIZ TECHNICAL UNIVERSITY

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