



GEBZE TECHNICAL UNIVERSITY

ADVANTAGEOUS LOCATION



İSTANBUL KOCAELİ
ANKARA

8

TECHNOLOGY
DEVELOPMENT
ZONES

18

INDUSTRIAL
ZONES

35

RESEARCH AND
DEVELOPMENT
CENTERS
(R&D CENTERS)

OUR VISION AND MISSION

Gebze Technical University's vision is to:

become a leading university worldwide that steers the development of knowledge produced in fundamental, engineering, and social sciences and conducts high-quality education and research.

Gebze Technical University's mission is to:

continue its existence by providing high-quality education and teaching to the benefit of the society, industry, and its region conducting scientific research, delivering practical solutions for the society's and industry's problems without compromising on scientific, ethical, and social values with its education quality and highly-qualified academic staff, well-equipped laboratories, research centers, and central location at the heart of Türkiye's industry.



OUR LOGO

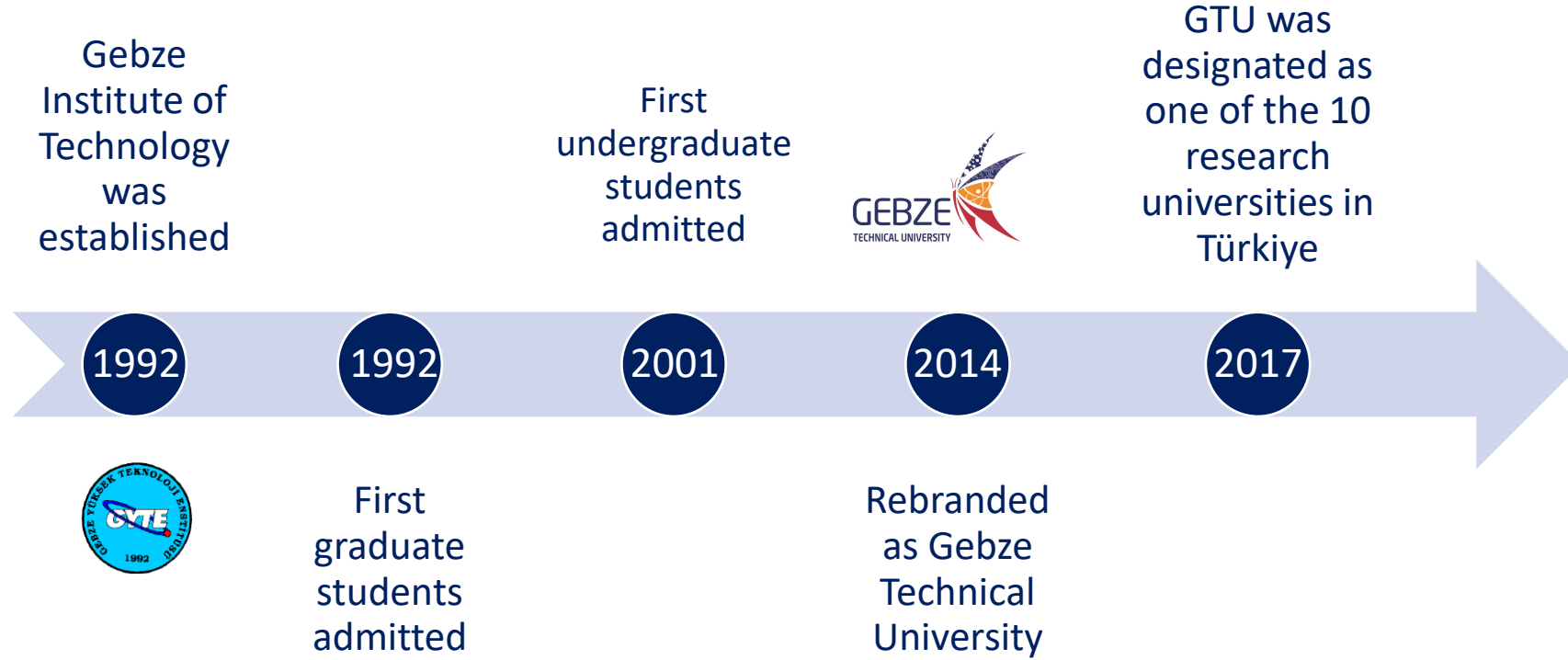


Dark Blue: Represents dignity, stability, power, and authority.

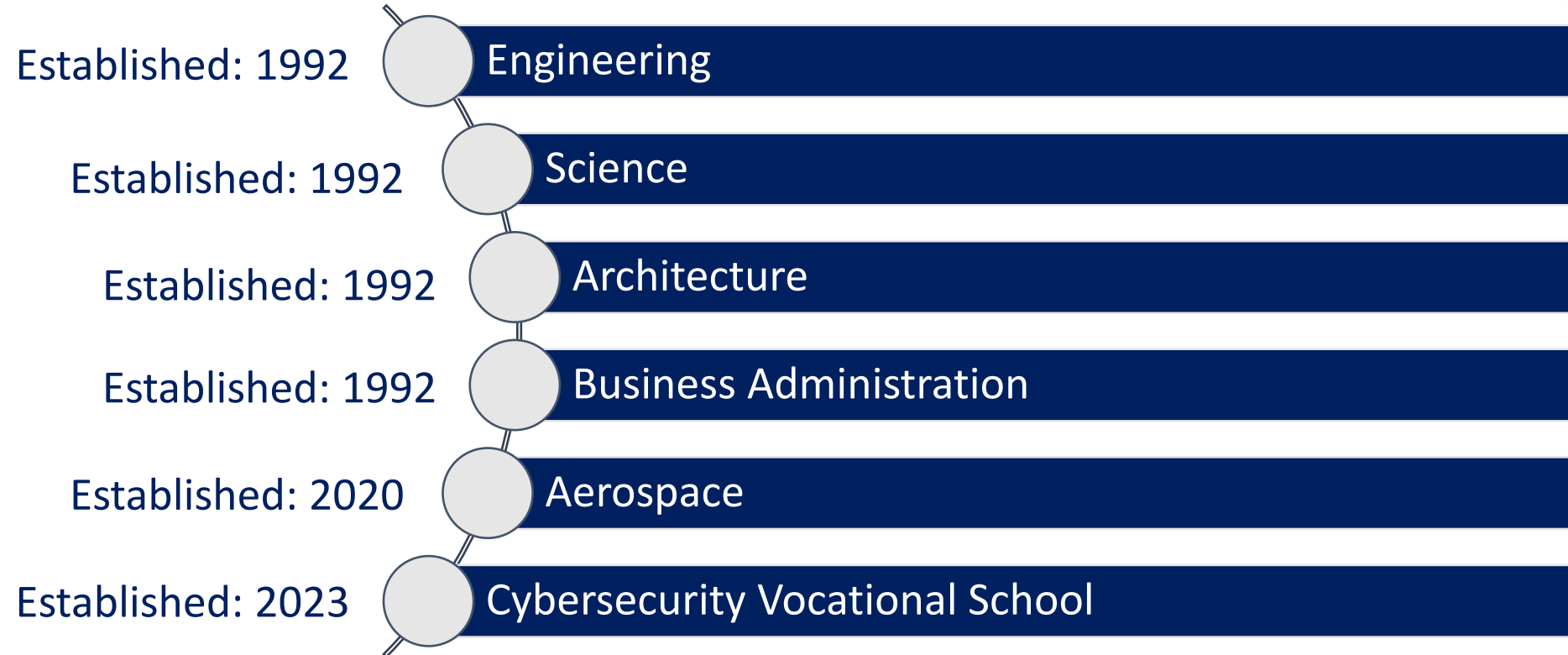
Yellow: Yellow, the color of intelligence, expresses intellectual capacity, tactfulness, ingenuity, rising energy, intellectual thought and awareness.

Red: Represents dynamism, determination, perseverance, and happiness.

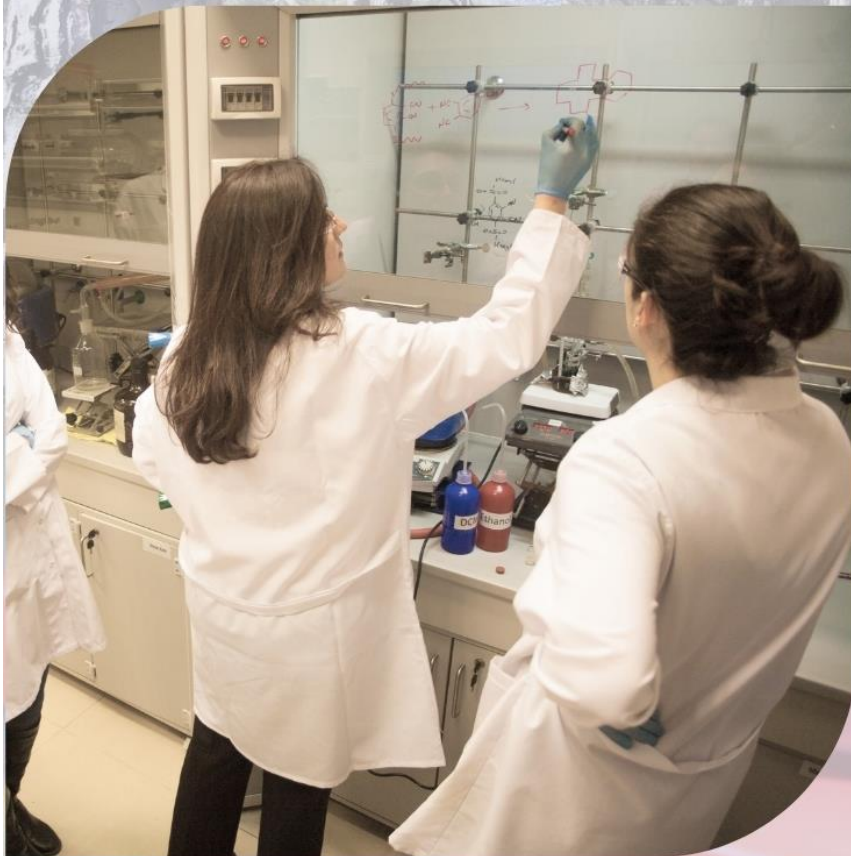
THE EVOLUTION OF GTU



FACULTIES/VOCATIONAL SCHOOL

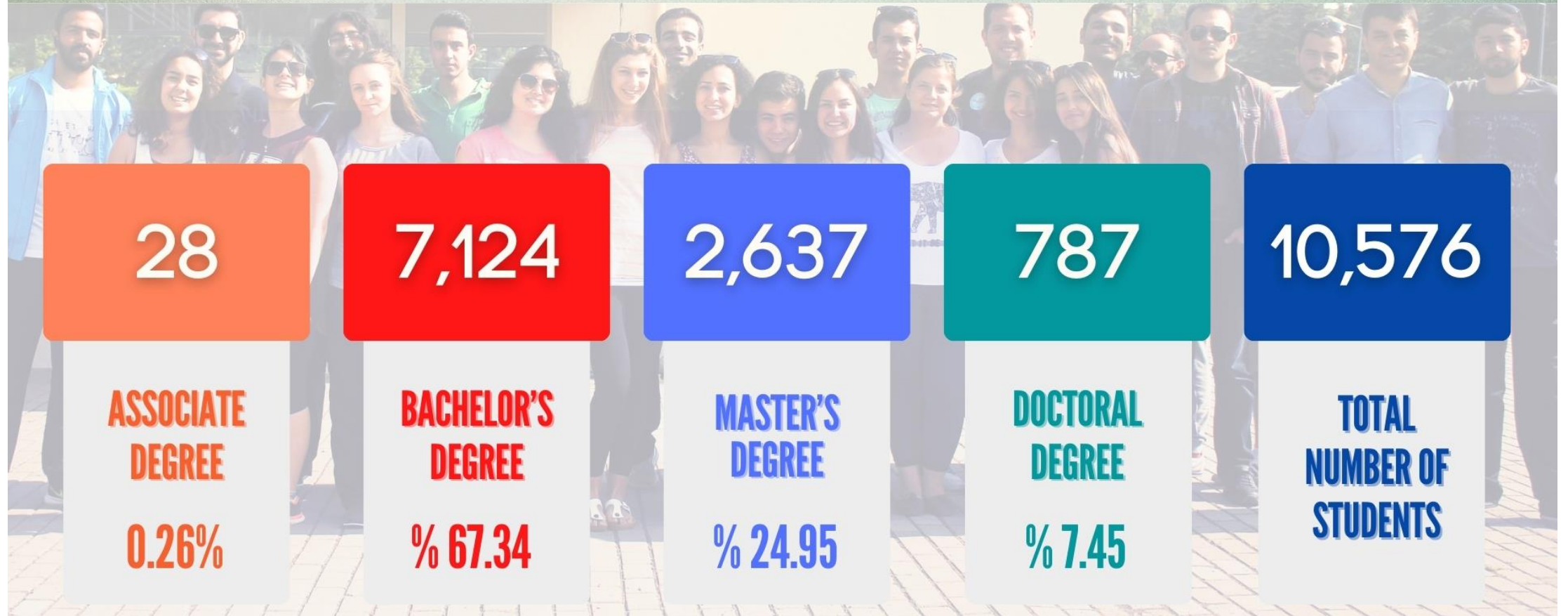


NUMBER OF ACADEMIC STAFF



Issued as of 13/03/2024

OUR NUMBER OF STUDENTS



UNDERGRADUATE PROGRAMS

Engineering

- 
- Computer Engineering (English)
 - Bioengineering (English)
 - Environmental Engineering (English)
 - Industrial Engineering (English)
 - Civil Engineering (English)
 - Chemical Engineering (English)
 - Mechanical Engineering (English)
 - Materials Science and Engineering (30% English)
 - Electronics Engineering (30% English)

(Turkish)

Science

- 
- Physics (English)
 - Chemistry (English)
 - Mathematics (English)
 - Molecular Biology and Genetics (English)

Architecture

- 
- Architecture (30% English)
 - City and Regional Planning (Turkish)

Business Administration

- 
- Management (39% English)
 - Economics (Turkish)

Aerospace

- 
- Aeronautical Engineering (English)

GRADUATE PROGRAMS

ENGINEERING

- **Computer Engineering** (MSc, PhD) 30% English
- **Information Systems** (MSc) 100% Turkish
- **Cyber Security** (MSc) 30 % English
- **Artificial Intelligence** (MSc) English
- **Bioinformatics and System Biology** (MSc, PhD) 100% English
- **Bioengineering** (MSc, PhD) 100% English
- **Glass Science and Technology** (MSc) 30% Turkish
- **Environmental Engineering** (MSc, 30% English) (PhD, 30 – 100% English)
- **Electronic Engineering** (MSc, PhD) 30% English

- **Industrial Engineering** (MSc, 30% English) (PhD, 30 – 100% English)
- **Civil Engineering** (MSc, PhD) 100% English
- **Earthquake and Construction Engineering** (MSc, 100% English) (PhD, 30 – 100% English)
- **Geodesy and Geographic Information Technologies** (MSc) 30% Turkish
- **Chemical Engineering** (MSc, PhD) 30% English
- **Mechanical Engineering** (MSc, PhD) English
- **Material Science and Engineering** (MSc, PhD) 30% English

GRADUATE PROGRAMS

NATURAL SCIENCES

- **Molecular Biology and Genetics** (MSc, PhD) 30% English
- **Physics** (MSc, PhD) 30% English
- **Chemistry** (MSc, PhD) 30% English
- **Mathematics** (MSc, PhD) 30% English
- **Metrology** (MSc) English
- **Chemical, Biological, Radiological and Nuclear Defence** (MSc) English

SOCIAL SCIENCES

- **Management** (MSc) 30% English, (PhD) Turkish
- **Economics** (MSc, PhD) Turkish
- **Entrepreneurship and Innovation Management** (MSc) Turkish
- **Science of Strategy** (MSc) Turkish
- **International Trade and Finance** (MSc) Turkish

ARCHITECTURE

- **Architecture** (MSc, PhD) Turkish
- **City and Regional Planning** (MSc) 30% English

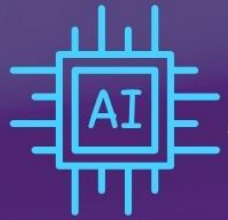
GRADUATE PROGRAMS

INTERDISCIPLINARY PROGRAMS

- **Climate Change (MSc)** 30% English
- **Earth Sciences (MSc, PhD)** 30% English
- **Earth and Marine Sciences (PhD)** 30% English
- **Biotechnology (MSc, PhD)** English
- **Smart City and Transportation Technologies (MSc)** Turkish
- **Defence Science and Technology (MSc)** 30% English

- **Defence Electronics Engineering (MSc)** 30% English
- **Nanoscience and Nanoengineering (MSc, PhD)** English
- **Applied Propulsion and System Design Engineering for Aerospace Technologies (MSc)** English
- **Aerospace System Design Engineering (MSc)** 30% English

OUR PRIORITY AREAS



**Artificial
Intelligence**



**Defense
Technologies**



**Advanced
Materials &
Nanotechnology**



**Life Sciences:
Medicines-
Vaccines**



**Medical, Plant
and Industrial
Biotechnology**



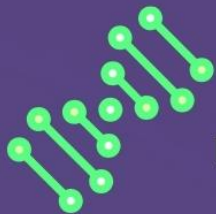
Electronics



Chemistry



Automotive



Bioinformatics



**Environmental
Sciences and Climate
Change**



Cyber Security

RESEARCH INSTITUTES AND CENTERS

RESEARCH INSTITUTES

- Institute of Biotechnology
- Institute of Nanotechnology
- Institute of Earth and Marine Sciences
- Institute of Transportation Technologies
- Institute of Defence Technologies
- Institute of Information Technologies
- Institute of Energy Technologies

RESEARCH CENTERS

- Nanotechnology Application and Research Center
- Science and Technology Application and Research Center
- Continuing Education Application and Research Center
- Smart Agriculture Research and Application Center (ATAM)
- Career and Professional Development Application and Research Center
- Aluminum Research and Application Center
- Application and Research Center for Women and Family Studies (KUAM)
- Cultural Heritage Conservation Implementation and Research Center
- Central Research and Application Laboratory

NUMBER OF PUBLICATIONS PER FACULTY MEMBER

UNIVERSITY	NUMBER OF FACULTY MEMBERS	2022 PUBLICATIONS	2022 RATIO
KOÇ UNIVERSITY	477	1,642	3.44
SABANCI UNIVERSITY	207	668	3.23
ISTANBUL TECHNICAL UNIVERSITY	1,158	2,706	2.34
GEBZE TECHNICAL UNIVERSITY	328	757	2.31
MIDDLE EAST TECHNICAL UNIVERSITY	791	1,818	2.30
BEZMİALEM VAKIF UNIVERSITY	255	499	1.96
HACETTEPE UNIVERSITY	1,889	3,465	1.83
YILDIZ TECHNICAL UNIVERSITY	948	1,732	1.83
BOĞAZİÇİ UNIVERSITY	500	874	1.75
KADİR HAS UNIVERSITY	156	252	1.62
GAZİ UNIVERSITY	1,762	2,407	1.37
ANKARA UNIVERSITY	1,924	2,494	1.30

SOURCE: SCIVAL

NUMBER OF PUBLICATIONS PER FACULTY MEMBER



UNIVERSITY RANKINGS



2024 TIMES HIGHER EDUCATION
WORLD UNIVERSITY RANKINGS



2024 TIMES HIGHER EDUCATION WORLD
UNIVERSITY RANKINGS BY SUBJECT



QS WORLD UNIVERSITY RANKINGS



URAP 2023-2024 TÜRKİYE UNIVERSITY
RANKINGS "Public Universities"



URAP 2023-2024 TÜRKİYE



2023 TIMES HIGHER EDUCATION

INTERNATIONALIZATION AT GTU

International Outreach and Collaboration

Student/faculty recruitment, MoUs, GTU brand recognition and visibility enhancement

International Exchange

continue its existence by providing high-quality education and teaching to the benefit of the

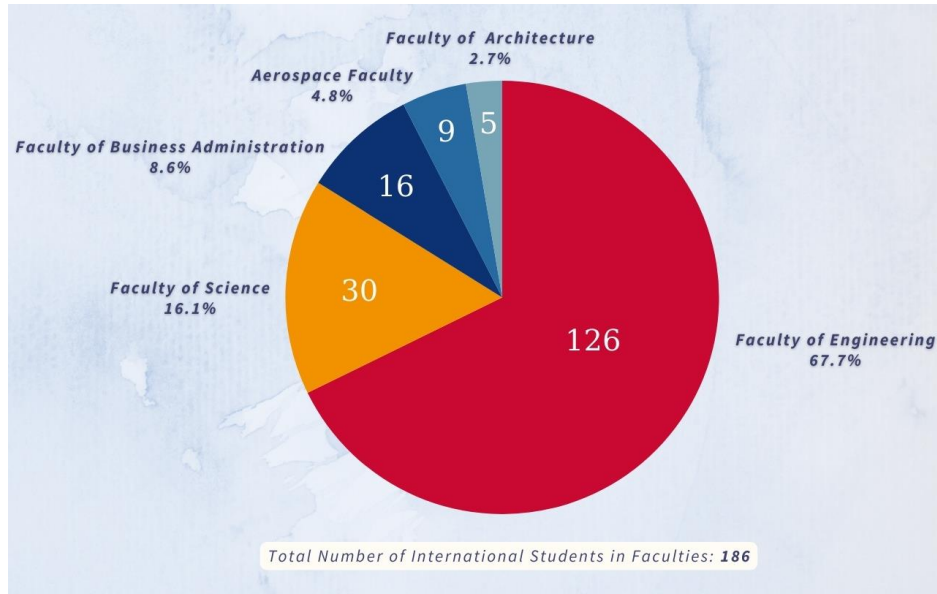
International Projects

continue its existence by providing high-quality education and teaching to the benefit of the

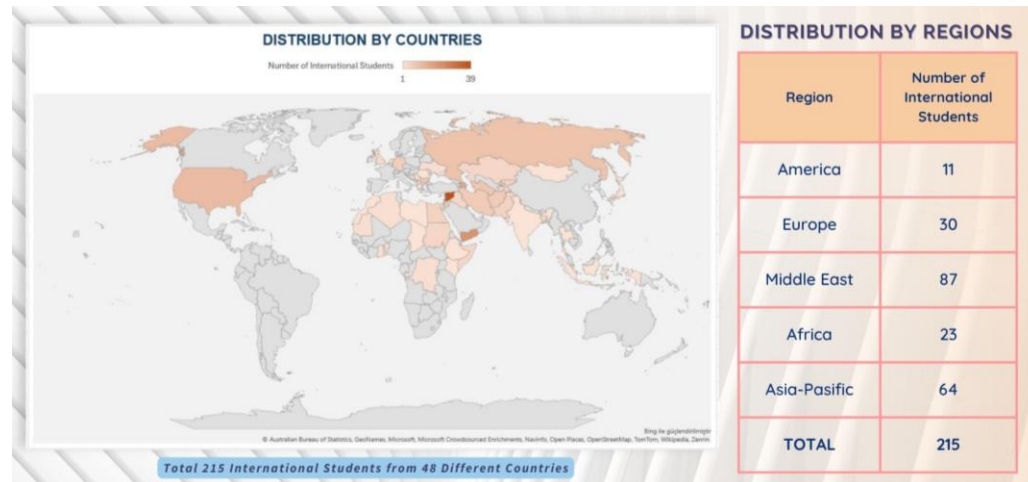
INTERNATIONALIZATION AT GTU

Internationalization - Highlights

- GTU currently has ~220 full-time international students enrolled in various programs.
- ~50 agreements with international universities/organization in 18 countries **outside** the European framework. These agreements include MoU, student/faculty exchange etc.
- Under European framework, GTU has > 80 student, faculty and staff exchange agreements.
- The university is actively engaged in FP6, FP7, Horizon 2020, Horizon Europe, and NATO projects.



DEPARTMENT AND REGIONAL DISTRIBUTION OF INTERNATIONAL STUDENTS



INTERNATIONAL PROJECTS

Horizon Europe and Framework Programs				
S. No	Funding Program	GTU Role	Project Name	Project Duration
1	HORIZON EUROPE - WIDENING-Twinning Project	Coordinator	TwinBat:Twinning for Rechargeable Sodium-Ion Battery Research, Horizon Europe	2024-2027
2	HORIZON EUROPE - MARIE CURIE- STAFF EXCHANGE	Coordinator	COVER- (C)ombinatorial (O)ptimisation for (V)ersatile Applications to (E)merging u(R)ban problems	2024-2027
3	HORIZON EUROPE-WIDERA-2023-ACCESS-07 (HORIZON-CSA)	Partner	Excel4Pro- Strengthening the Capacity of Excellence Hubs of Türkiye, Greece, and Ukraine to Support Innovation Ecosystem of Novel Foods Based on Plant Proteins	2024-2028
4	HORIZON-MSCA-COFUND-2022	Partner	PhD Program in Sustainable Water Management / WATER4ALL	2024 2029
5	Horizon 2020 - Marie Curie RISE	Partner	GREENDC- Sustainable energy demand side management for GREEN Data Centers	1/1/2017 9/1/2022

INTERNATIONAL PROJECTS

Horizon Europe and Framework Programs				
S. No	Funding Program	GTU Role	Project Name	Project Duration
6	Horizon 2020-EMPIR	Partner	Nano- scale traceable magnetic field measurements	9/1/2016 01/09/2019
7	7th Framework Programme (EU)	Partner	NEWGEN SOFC- NEW GENERATION SOLID FUEL CELLS	2014 2018
8	7th Framework Programme (EU) Marie Curie-Re-integration Grants (ERG)	Individual Project	INVESTIGATION OF FERROMAGNETISM IN GE-BASED DILUTED MAGNETIC SEMICONDUCTORS	7/1/2011 3/31/2016
9	7th Framework Programme (EU)	Partner	CLIMATE-RELATED CHANGES ON THE HYDROLOGY OF MEDITERRANEAN BASINS	1/1/2010 1/1/2014
10	7th Framework Programme (EU)	Partner	FUEL CELL STACK ASSEMBLY AND CONTROL	2008 2012
11	6th Framework Programme (EU)	Partner	DEVELOPMENT OF A PRACTICAL MATERIAL ANALYZER WORKING ACCORDING TO THE PRINCIPLE OF NUCLEUS MAGNETIC RESONANCE	01/03/2005 28/02/2008

INTERNATIONAL PROJECTS

Erasmus+ Projects (KA2 Cooperation Amongst Organisations/Institution

S. No	Funding Program	GTU Role	Project Name	Project Duration
1	Erasmus+ KA220-HED	Partner	CESynergy (Circular Economy Pathways for the Energy Transition)	2024-2026
2	ERASMUS+ K220-VET	Partner	FLIGHT (Future Learning in Vocational Education using Innovative Drone Technology)	2024-2026
3	ERASMUS+ K220-HED	Partner	(Yes4eLearning) Tools and Strategies for supporting the adaptation to learning in HE sector	10/1/2023 09/30/2025
4	ERASMUS+ K220-VET	Partner	Net0Manager-Carbon Management Training course for entrepreneurs of a net zero tomorrow	9/15/2023 9/14/2025
5	Erasmus+	Partner	Local Food Trace	12/31/2022 6/30/2025

INTERNATIONAL PROJECTS

Erasmus+ Projects (KA2 Cooperation Amongst Organisations/Institutions)

S. No	Funding Program	GTU Role	Project Name	Project Duration
6	Erasmus + KA220-ADU	Coordinator	READY4DISasters/Resilient communities through awareness and preparedness against the risks of fire, flood, and landslide	12/31/2022 12/30/2024
7	Erasmus+ KA220-HED	Partner	Common Learning Outcomes for European Managers in Construction	12/01/2022 31/05/2025
8	Erasmus + KA226-VET	Coordinator	SMARTEnvi- Smart Decision Systems to Reduce Hazards to Our Environment and Water Resources by Improving Wild Solid Waste Landfills	01.06.2021 31.05.2023
9	Erasmus - Lifelong Learning Programme	Partner	"OIKONET-A Global Multidisciplinary Network on Housing Research and Learning"	01/10/2013 9/30/2016

INTERNATIONAL PROJECTS

NATO SPS Projects				
S. No	Funding Program	GTU Role	Project Name	Project Duration
1	NATO	Coordinator	Conversion Technologies for Quantum Sensing & Secure Communications	03/01/2021 03/01/2024
2	NATO	Coordinator	Manyetik Resonance & Microwave Detection of Improvised Explosive and Ilicit Materials	1/13/2016 10/30/2019
3	NATO	Coordinator	Multisensor drone technique for different types of mine detection	08/14/2023 08/14/2026

INTERNATIONAL PROJECTS

GTU - INTERNATIONAL PROJECTS (Ongoing - Completed)				
Horizon Europe and Framework Programs				
S. No	FUNDING PROGRAM	GTU- ROLE	Project Name	Project Duration
6	Horizon 2020-EMPIR	Partner	Nano- scale traceable magnetic field measurements	9/1/2016 01/09/2019
7	7th Framework Programme (EU)	Partner	NEWGEN SOFC- NEW GENERATION SOLID FUEL CELLS	2014 2018
8	7th Framework Programme (EU) Marie Curie-Re-integration Grants (ERG)	Individual Project	INVESTIGATION OF FERROMAGNETISM IN GE-BASED DILUTED MAGNETIC SEMICONDUCTORS	7/1/2011 3/31/2016

INTERNATIONAL PROJECTS

Other International Projects				
S. No	Funding Program	GTU Role	Project Name	Project Duration
7	Black Sea Cross Border Cooperation (AB)	Partner	REDACT- Rapid Earthquake Damage Assesment Consortium(Deprem Hasar Değerlendirme)	7/1/2020 6/1/2023
8	AFORS-AirForce USA	Individual Project	Investigatiopn of the Effect of Crystallographic Anisotropy and Defects on the Electrocaloric Response of Stree- free Relaxor Ferroelectric Plates by Experimantal and Analytical Techniques	7/15/2018 15/07/2022
9	Royal Society- Newton Advanced Fellowships - United Kingdom	Partner	Development Of Novel Conducting Polymer Composite Materials And Investigation Of Optoelectronic Device Applications	11/1/2018 10/31/2022
10	United Nations Industrial Development Organization (UNIDO)	Coordinator	DESIGN, PRODUCTION AND OPERATION OF HYBRID HYDROGEN BUS	11/1/2010 10/31/2012

INTERNATIONAL (ERASMUS) EXCHANGE

Type of Mobility	Number of Applications (2022)	Number of Applications (2023)	Number of Applications (2024)	Number of Outgoing Participants (2022)	Number of Outgoing Participants (2023)
Student Studies	227	328	241	31	60
Student Traineeships	166	278	214	60	93
Staff Teaching	2	3	7	2	5
Staff Training	19	36	34	40	26
Total	414	645	496	133	184

OTHER COLLABORATIONS

Joint Projects

- **NATO Science for Peace and Security (SPS) Grants**
 - Multi-year projects (MYP): Up to 3 years and 400,000 Euros budget. Require a NATO country (Türkiye) and a NATO Partner country (Qatar)
 - Advanced Research Workshops, Advanced Study Institutes, Advanced Training Courses: 2-10 working days, 30,000-60,000 Euros budget.
- **TUBITAK-QNRF Bilateral Calls**
 - Last call opened in April, closed in June.
 - Qatari partner with 1 Turkish academic and 1 Turkish industrial partner.
 - Duration: 2 years.
 - Budget: 12,000,000 TL for Turkish partners and QAR 730,000 **per year** for Qatari partner.
 - Thematic Areas: Smart Transportation, Smart Logistics, Smart Healthcare, Smart Environment, Smart Sports.

OTHER COLLABORATIONS

Erasmus/Exchange Programs								
Name	Project Based /not?	Application	Deadline	Mobility Type	Funding	Student Type	Grants for Students	Grants for Staff
KA131 Erasmus Mobility	No	Erasmus agreement is needed to be sign (see attached form). GTU has ongoing KA131 project and your university can participate only by signing the agreement.	None	<u>Just outgoing</u> mobilities for students and staff (from GTU to your university)	GTU funds students and staff.	Every level; undergraduate, master doctorate students.	450-700€ monthly	133-190€ monthly
KA171 Erasmus Mobility (International Credit Mobility)	Yes	A proposal-thematic* Project must be submitted to Turkish National Agency by GTU as the Coordinator of partnership. After acceptance of Project process begins.	Every year, February.	<u>Incoming and outgoing</u> mobilities for students and staff	GTU coordinates the given grants and manages all procedures.	Every level; undergraduate, master doctorate students.	Incoming (To Turkey): Monthly 800 € Outgoing (To Partner): Monthly 700 € Travel Grant for Students and Staff: It is between 20 € - 1.500 € depends on the distance between two countries.	Incoming (To Turkey): Daily 140 € Outgoing (To Partner): Daily 180 € Travel Grant for Students and Staff: It is between 20 € - 1.500 € depends on the distance between two countries.

***A thematic Project must be composed by both GTU's and your university's academic staff. In order to getting the Project accepted, certain research areas can be pointed which are favored by EU Commission. e.g. Climate, Environment and Sustainability, Inclusion and Diversity-Digital Transformation.**

OTHER COLLABORATIONS

Other Avenues

- Joint supervision of graduate students/researchers
- Summer school programs/block courses
- Joint conference/seminar organization
- Open to other suggestions!



Smart Decision Tools for Reducing Hazards to Our Environment and Water Resources by Rehabilitating Open Dumps



SOFIA
UNIVERSITY



ST. KLIMENT
OHRIDSKI
EST. 1888



Website: <https://smart-envi.gtu.edu.tr>



Co-funded by the
Erasmus+ Programme
of the European Union





READY4DISasters

Resilient communities through awareness and preparedness against the risks of fire, flood, and landslide

<https://ready4disasters.gtu.edu.tr/>



PROMOTER

Gebze Teknik Üniversitesi,
Türkiye



PARTNERS

Kocaeli Büyükşehir Belediyesi,
Türkiye



Kocaeli İl Afet ve Acil Durum
Müdürlüğü,
Türkiye



Lares Italia - Unione Nazionale
Laureati Esperti in Protezione
Civile - Aps,
Italia



Oikologikos Politistikos
Syllogos Chaidariou,
Greece



Digiway,
Georgia



Training 2000,
Italy



@ready4disasters

<https://www.facebook.com/groups/610573784408928>



Visit our Web page for more information

<https://ready4disasters.gtu.edu.tr/>

READY4DISasters

*Resilient communities
through awareness and
preparedness against the
risks of fire, flood, and
landslide*



Erasmus+
KA220-ADU - Cooperation
partnerships in adult education
2022-1-TR01-KA220-ADU000087618



This project is co-funded by European Union (EU) and the Turkish National Agency (TNA) under the Erasmus+ grant KA220-ADU - Cooperation partnerships in adult education. EU and TNA cannot be held responsible for any use which may be made of information contained therein.

Thank you for your attention



gtu.international



gtuinternation



cooperation@gtu.edu.tr

