

2023 - 2025

FACULTY OF ENGINEERING AND ARCHITECTURE





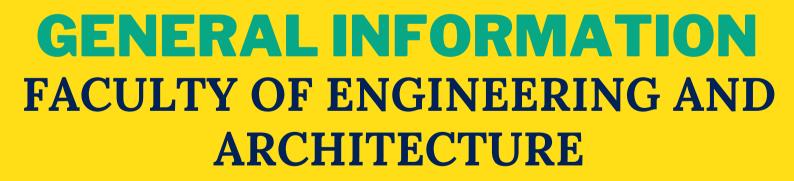




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PREFACE Prof. Dr. Tarık ÇAKAR



Istanbul Gelisim University Faculty of Engineering and Architecture, which is among the leading foundation and private universities in Turkey, was established with the Law No. 6114 dated 17/02/2011. First of all, the number of departments in our faculty, which started its educational activities with 5 departments in the 2011-2012 academic year, has reached 9 departments with the opening of new departments. In our faculty, Industrial and Mechatronics Engineering departments provide education in Turkish, while Computer, Electrical and Electronics, Civil, Aircraft and Software Engineering Departments and Architecture offer two different programs in Turkish-English. Education and academic activities in the Faculty of Engineering and Architecture are carried out with experienced faculty members who are experts in their fields, who closely follow the current technological and scientific developments in the world and in our country. Equipped with theoretical knowledge as well as practical knowledge, our faculty has the mission of preparing our students for the future. It is our greatest pride that our young people who graduated from our faculty, which we aim to train students who can successfully work in joint projects with a team spirit, think analytically, and feel responsible for the society and the institution they work for, contribute to the engineering and architectural development of our country. We offer environments and activities for our young people who want to study in the engineering and architecture departments of our faculty, where they can develop new ideas, produce innovative projects, get to know different cultures, and enjoy education and training. We have full faith and confidence that when you graduate from our faculty, you will raise awareness in your environment and meet the future fully equipped. Best wishes for love and success.

> Prof. Dr. Tarık ÇAKAR Dean of the Faculty of Engineering and Architecture



HIGHLIGHTS

Number of Students of Our Departments

TOTAL STUDENT NUMBER

3716



COMPUTER ENGINEERING



COMPUTER ENGINEERING (ENGLISH)



ELECTRICAL ELECTRONICS ENGINEERING



EELECTRICAL ELECTRONICS ENGINEERING (ENGLISH)



CIVIL ENGINEERING



INDUSTRIAL ENGINEERING



BASIC SCIENCES



AERONAUTICAL ENGINEERING



CIVIL ENGINEERING ENGLISH



MECHATRONIC ENGINEERING



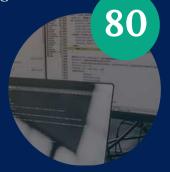
AERONAUTICAL ENGINEERING (ENGLISH)



ARCHITECTURE



ARCHITECTURE (ENGLISH)



SOFTWARE ENGINEERING (ENGLISH)



SOFTWARE ENGINEERING







ADMINISTRATIVE STAFF



DEAN Prof. Dr. TARIK ÇAKAR



VICE DEAN Dr. SEDA ERBAYRAK



VICE DEAN Dr. NURDAN TÜYSÜZ

FACULTY SECRETARY İMDAT ÖZDAL

OFFICE STAFF SÜMEYYE ESER **OFFICE STAFF** SALİHA ŞİŞMAN

OFFICE STAFF EFSA ELİF SAYGIN

ABOUT US

HISTORY

The Faculty of Engineering and Architecture, which received its first students from Istanbul Gelişim University in the 2011-2012 academic year, has been continuing to train the scientists and engineers of Turkey with the same determination, dedication and success since the first day of its establishment. The faculty, which started with 5 departments, continues its activities with 15 education program today.

The main purpose of our faculty; to raise original individuals who are open to scientific and technological developments, self-confident, loyal to Atatürk's principles, able to think scientifically, contemporary and universally, have team consciousness and ethical values, have the ability to think critically, are sensitive to society and the environment, and look to the future with hope, determination and faith. is to always pursue our goals with the same determination. We show the same determination to become one of the respected and leading universities in Turkey, with the education model we apply at world standards and the values we take as a basis.

We consider it our duty to prepare our students not only for their profession, but also for life and the future, with our education programs that we implement by saying that it is much more than a school in order to be accepted in the national and international arena, and we continue to train our students successfully on this path. We not only provide theoretical knowledge to our students, but also reinforce the theoretical knowledge with practice through the technical infrastructures we use, application centers, cooperation with universities, industries and private institutions, and various opportunities we offer. With the competencies they have acquired and the awareness of lifelong learning, our students who graduate from our school fulfill their duties with great determination, equipped from the first moment they step into the business world. Our graduates have the opportunity to find jobs in many sectors, including public and private institutions, and in different positions, and they represent our country and our school in the international arena.

ABOUT US

OUR MISSION

Mission of our faculty is;

- To contribute to our country, society and humanity,
- To serve society with professional education and leading research studies,
- To use resources in an efficient and accountable manner based on merit,
- To establish internalized culture of quality and tolerance,
- To organize joint projects with well-known international universities/organizations,
- To create corporate culture based on teamwork that includes all academic and administrative staff,
- To offer opportunities to economically disadvantaged students for the social and economic development of our country,

to be an institution that is constantly in DEVELOPMENT (GELİŞİM).

OUR VISION

In order to realize our mission and to be among the world universities on the path of continuous improvement, we are;

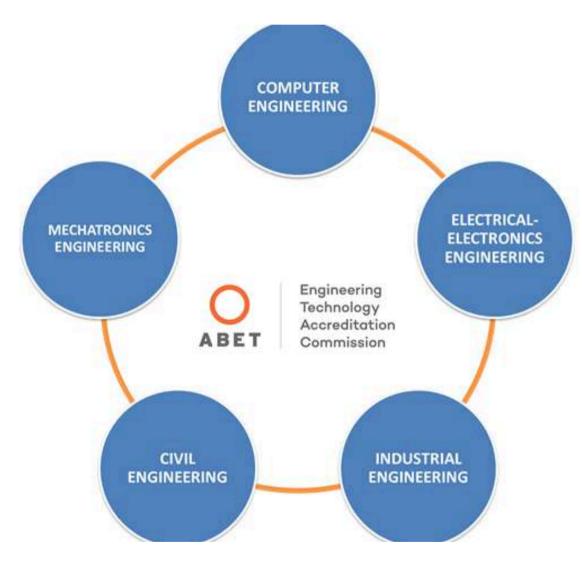
- Adopting the principle of lifelong learning and teaching with devotion in light of the latest technological developments
- Producing information for the benefit of humanity
- Continuously improving research, development and education infrastructure
- Developing up-to-date projects that will transform knowledge into technology
- Carrying out technology transfer studies that do not harm living things, the environment and the ecological order
- Giving priority to interdisciplinary cooperation with intellectual accumulation
- Respecting ethical values

to be a leading faculty.

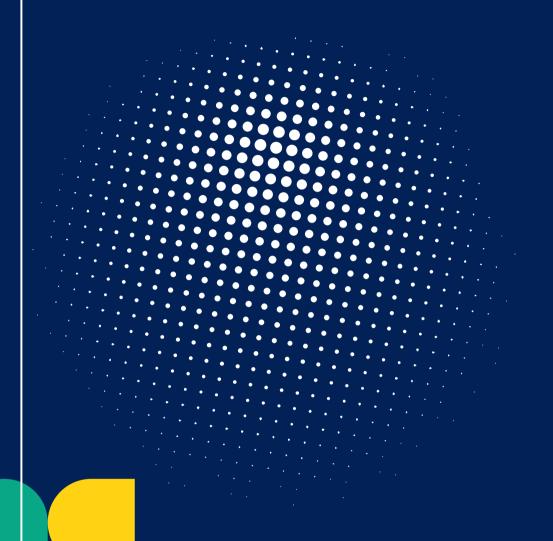
ABET ACCREDITATION

5 of the 8 departments carrying out education and training activities in our faculty are accredited by the Accreditation Board for Engineering and Technology (ABET).









LABORATORIES FACULTY OF ENGINEERING AND ARCHITECTURE

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Laboratories



Computer Laboratories

Electrical-Electronics Laboratory

Renewable Energy - Electronic Machinery and Power Elements Laboratory

Communications and Microprocessors Laboratory Industrial Automation Laboratory

Physics Laboratory

Ergonomics Laboratory

Structural and Building Materials Laboratory

Hydraulics and Soil Mechanics Laboratory

Machining - Chipless Manufacturing Methods Laboratory

Nanotechnology Laboratory











COMPUTER LABORATORIES



Computer laboratories are used for students to develop their computer skills in programming, design and organization.

ELECTRICAL-ELECTRONICS LABORATORY

Electrical and Electronics Laboratory; is used for students to grasp basic electronics, circuit analysis, logical circuits knowledge practically.



RENEWABLE ENERGY-ELECTRONIC MACHINERY AND POWER ELEMENTS LABORATORY



Renewable Energy - Electronic Machinery and Power Elements Laboratory is used for students to grasp the knowledge of electrical machines, electrical facilities, and renewable energy systems practically.



COMMUNICATIONS AND MICROPROCESSORS LABORATORY

Microprocessors and Communication Laboratory is used for students to grasp the knowledge of microprocessors and communication practically.

INDUSTRIAL AUTOMATION LABORATORY

In the Automation and PLC Laboratory, there are Festo automation control devices and hydraulic and pneumatic systems. Our students can also design robots and drones and assemble the parts here.



PHYSICS LABORATORY



In the physics laboratory of the Faculty of Engineering and Architecture, courses are given to enable students to comprehend the laws and theories of physics on earth, and mechanical and electrical experiments are carried out.

ERGONOMICS LABORATORY





The Business Science Laboratory is one of the laboratories required for the experiments in the courses in which the classical methods and techniques of industrial engineering are explained. Our Business Science Laboratory is a fully equipped laboratory where the most advanced devices and equipment related to Work Study and Ergonomics courses are provided and the applications of these courses are made, and is in a privileged position among all universities with its equipment and device capacity.

STRUCTURAL AND BUILDING MATERIALS LABORATORY

Undergraduate, graduate and doctoral students benefit from the building and building materials laboratory, where some of the applied courses of the Civil Engineering Department are given. In the laboratory, where the basic building materials of constructions such as concrete, steel and plaster are examined, the chemicals used in the materials are examined, experimental studies and projects are carried out regarding the use and quality of the materials.



HYDRAULICS AND SOIL MECHANICS LABORATORY

Undergraduate, graduate and doctoral students benefit from the Hydraulics and Soil laboratory, where some of the applied courses of the Civil Engineering Department are given. At the undergraduate level, many experiments can be carried out for the practical understanding of Fluid Mechanics, Hydraulics, Hydrology and Soil Mechanics courses.

MACHINING - CHIPLESS MANUFACTURING METHODS LABORATORY



Machining - Chipless Manufacturing Methods Laboratory was established for students to practice machining and chipless production techniques. Inside, machine tools that make machining (shape and sanding stone bench, saw, column drill, table drill, radial drill), lathes, vertical milling machines. In addition, it consists of machine tools that make chipless production (guillotine shears, upkant bending machine) and welding machines.

ARCHITECTURE DRAWING WORKSHOPS

Architectural drawing workshops in our university are used especially in architectural education. In this workshop, students will carry out various design works in the company of experienced coordinators and will have the opportunity to present, exhibit and discuss their products during the presentation periods.

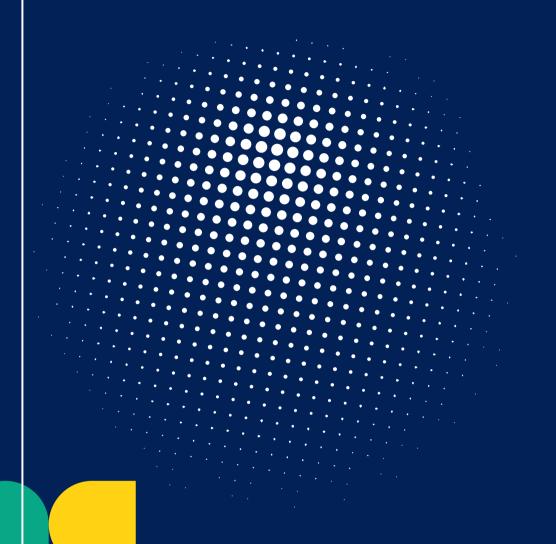


NANOTECHNOLOGY LABORATORY



The "Nanotechnology Laboratory" within the Mechatronics Engineering Department, focuses on the synthesis, characterization, and applications of nanoparticles in advanced sections. It pioneers scientific innovations with state-of-the-art equipment and an interdisciplinary work environment. It offers students and researchers hands-on training and project development opportunities in the field of nanoscience.





STUDENT WORKSHOPS FACULTY OF ENGINEERING AND ARCHITECTURE

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AERONAUTICAL ENGINEERING STUDENT WORKSHOP



The Aeronautical Engineering Student Workshop established within our university is designed for our students to put their theoretical knowledge into practice, develop team projects and implement their innovative ideas. Our workshop hosts project development processes for Teknofest and similar competitions, providing our students with a productive and collaborative working environment. With its spacious and functional work areas, it provides a productive ground for future aviation engineers to develop themselves.

MECHATRONICS ENGINEERING STUDENT WORKSHOP

With the Mechatronics Engineering Student Workshop, undergraduate students have opportunity to work on projects in various fields such as design, control, robotics, automation, embedded systems and artificial intelligence applications, especially graduation projects, and to experience prototyping and product development processes. In addition, students will be able to get communicating one-on-one support by advisor faculty members during project processes and develop project management, documentation and presentation skills.



COMPUTER ENGINEERING AND SOFTWARE ENGINEERING STUDENT WORKSHOP



The Software Computer Engineering and Engineering Student Workshop was established to support our students' project development and application skills. Equipped with devices such as a 3D printer, electronic soldering station, and a special meeting area, our workshop offers a creative and productive working environment that allows our students to transform their theoretical knowledge into practice. By hosting individual and group projects, the workshop allows our students their technical skills, develop interdisciplinary collaborations, and transform their innovative ideas into concrete outputs.

ELECTRICAL - ELECTRONICS ENGINEERING STUDENT WORKSHOP

Established students to support our transforming their theoretical knowledge into practical skills, the Electrical - Electronics Engineering Student Workshop offers a dynamic learning environment that encourages creative thinking, supports project development and teamwork. Through this workshop, our students have the opportunity to develop original projects in various fields such as circuit design, embedded systems, robotic applications, renewable energy systems and artificial intelligence.







FACULTY OF ENGINEERING AND ARCHITECTURE

DEPARTMENTS





FACULTY OF ENGINEERING AND ARCHITECTURE

COMPUTER ENGINEERING

ACADEMIC STAFF



Dr. Oğuzhan ÖZTAŞ Ph.D. İstanbul University



Dr. Tarık ARABACI Ph.D. Marmara University



Prof. Dr. TUFAN ADIGÜZEL Ph.D. Texas A&M University



Dr. Mustafa ŞENOL Ph.D. İstanbul Technical University



Dr. Serkan GÖNEN Ph.D. Gazi University



Dr. Nihal ALTUNTAŞ Ph.D. Yıldız Technical University



Dr. Gökay Burak AKKUŞ Ph.D. Trakya University



Dr. Zeinab HASSANZADEH Ph.D. Gilan University



Bahadır KOPÇASIZ Ph.D. Bursa Uludağ University



Dr. Ferhat KÜRÜZ Ph.D. Yıldız Technical University



Dr. Melis ÇAMLIOĞLU Ph.D. Yıldız Technical University



Dr. Ümit ALKAN Ph.D. Yıldız Technical University

ACADEMIC STAFF



Res. Asst. AHMET NAİL TAŞTAN



Res. Asst. Hasan YILDIRIM



Res. Asst. MEHMET ALİ BARIŞKAN



Res. Asst. M. Mustafa YURDAKUL

COMPUTER ENGINEERING

Number of Students: 551

Opening Year of Department: 2011

Number of Internship Days: 30+30=60

Accreditation Status: ABET

Purpose of Department

Computer Engineering aims to educate engineers who are equipped with knowledge and skills in computer engineering and related disciplines. Who can follow and question new technologies and developments, Also can develop new products, who can benefit the society and are environmentally conscious, respectful of human rights.



Some Lectures

- Artificial Intelligence
- Logic Circuit Design
- Cyber Security
- Machine Learning
- Encryption

COMPUTER ENGINEERING DEPARTMENT FIELDS OF RESEARCH

O ABET

Istanbul Gelisim University

Department of Computer Engineering Approved by ABET (Accreditation Board for Engineering and Technology)

Computer Ethics And Law

Artificial Neural Networks

Cloud Computing

Nuclear Medicine

Robotics

Computer Ethics

Artificial intelligence

Electronics

Network Systems

Mobile Programming

Object Detection

Computer Networks

Maths

Artificial Neural Networks

Optimization Algorithms

Electrics

Materials

Physics

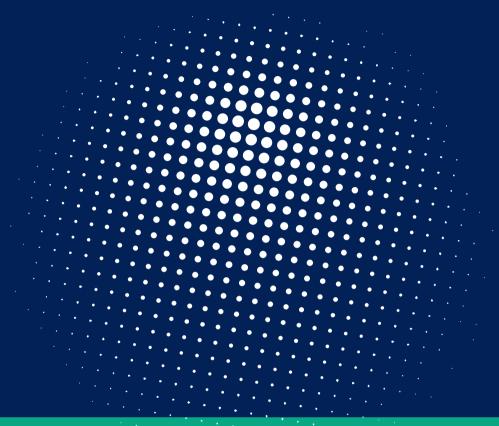
Polymer Physics

Cyber Security

Software Security

Image processing





SCIENTIFIC RESEARCHES



TOTAL

90

SCIENTIFIC STUDIES





28 Papers

17 Projects

7 Books



Author	Title	Journal	Year
Filiz, O., Kaya, M. H., & Adiguzel, T.	Teachers and AI: Understanding the factors influencing AI integration in K-12 education.	Education and Information Technologies	2025
Şenol, M., & Haşıloğlu, A.	Creating User-Centric and Artificial Intelligence- Enhanced Hybrid Authentication Systems and Policies: A Theoretical Approach.	13th International Symposium on Digital Forensic and Security (ISDFS)	2025
Şenol, M., & Haşıloğlu, A.	WG4: Human factor in wireless security. Interdisciplinary Security Aspects of Next- Generation Wireless Networks and Systems	Berlin: COST (European Cooperation in Science and Technology	2025
Şentürk, K., Gormus, A. F., Gönen, S., Barışkan, M. A., & Durmaz, A. K.	Artificial intelligence-enhanced intrusion detection systems for drone security: a real-time evaluation of algorithmic efficacy in mitigating wireless vulnerabilities.	Cluster Computing	2025
Gönen, S.	A Novel Approach for Detection of Cyber Attacks in MQTT-Based IIoT Systems Using Machine Learning Techniques.	Journal of advanced research in natural and applied sciences	2025
Kopçasiz, B.	Exploration of soliton solutions and modulation instability analysis for cold bosonic atoms in a zigzag optical lattice in quantum physics.	Nonlinear Dynamics	2025
Sağlam, F. N. K., Kopçasiz, B., & Şenol, M.	Abundant new soliton solutions to the Arshed–Biswas equation via two novel integrating schemes.	Modern Physics Letters A	2025
Kopçasiz, B.	Multi-Wave, Breather, and Interaction Solutions to Akbota Equation for The Heisenberg Ferromagnet- Type Model Arising in Nonlinear Physical Sciences.	International Journal of Applied and Computational Mathematics	2025
Kopçasız, B., & Bulut, H.	Exploration of the soliton solutions of the (n+1) dimensional generalized Kadomstev Petviashvili equation using an innovative approach.	Scientific Reports	2025
Kopçasiz, B., & Yaşar, E.	Solitonic structures and chaotic behavior in the geophysical Korteweg-de Vries equation: A μ-symmetry and g'-expansion approach.	Modern Physics Letters B	2025
KOPÇASIZ, B., & YAŞAR, E.	Soliton solutions, sensitivity analysis, and multistability analysis for the modified complex Ginzburg-Landau model.	European Physical Journal Plus	2025
Sağlam, F. N. K., Kopçasız, B., & Tariq, K. U.	Optical Solitons and Dynamical Structures for the Zig-zag Optical Lattices in Quantum Physics.	International Journal of Theoretical Physics	2025
Kopçasız, B., Saglam, F. N. K., & Malik, S.	Exact soliton solutions for the (n + 1)-dimensional generalized Kadomtsev–Petviashvili equation via two novel methods.	International Journal of Geometric Methods in Modern Physics	2025
Kopçasız, B., & Nur Kaya Sağlam, F.	Exploration of Soliton Solutions for the Kaup– Newell Model Using Two Integration Schemes in Mathematical Physics.	Mathematical Methods in the Applied Sciences	2025
Kopçasız, B.	Traveling Wave Solutions for the Fourth-Order Nonlinear Ablowitz-Kaup-Newell-Segur Water Wave Equation.	Natural Sciences, and Technological Developments (ICENSTED 2025)	2025
Kürüz, F.	Generalised Tribonacci hybrid quaternions.	Logic Journal Of The Igpl	2025
Kürüz, F.	Some New Fibonacci Matrices and Error Detecting- Correcting Codes.	Symmetry	2025
Al-Shorman, T., Bataineh, M., Çamlığlu, M., & Ersoy, B. A.	Graded pseudo weakly prime spectrum of graded topological modules.	Applied General Topology	2025
Abdulwahhab, A. H., Myderrizi, I., & Yurdakul, M. M.	PAFWF-EEGC Net: parallel adaptive feature weight fusion based on EEG-dynamic characteristics using channels neural network for driver drowsiness detection.	Signal, Image And Video Processing	2025
Filiz, O., Kaya, M. H., & Adigüzel, T.	HyFlex teaching experience and reflections in K-12.	Online Journal of Communication and Media Technologies	2024

Author	Title	Journal	Year
Filiz, O., Kaya, M. H., & Adigüzel, T.	HyFlex teaching experience and reflections in K-12.	Online Journal of Communication and Media Technologies	2024
Bayezit H., & Adıgüzel, T.	Examining the Foreign Language Writing Experiences of Computer Engineering Students.	American Journal of Qualitative Research	2024
Onur, F., Gönen, S., Barışkan, M. A., Kubat, C., Tunay, M., & Yılmaz, E. N.	Machine learning-based identification of cybersecurity threats affecting autonomous vehicle systems.	Computers and Industrial Engineering	2024
Görmüş, A. F., Gönen, S., Haşıloğlu, A., & Yılmaz, E. N.	Evaluation of Machine Learning Models for Attack Detection in Unmanned Aerial Vehicle Networks.	Turkish Journal of Mathematics and Computer Science	2024
Yıldırım, H., Görmüş, A. F., Metin, M. A., Şentürk, K., Noberi, C., & Gönen, S.	Dronlardaki Yük Taşıma Mekanizmasına Replay Attack Saldırısı ve Şifreleme.	11. Savunma Teknolojileri Kongresi SAVTEK2024	2024
Gönen, S.	A methodical examination of single and multi- attacker flood attacks using RPL-based approaches.	Computers and Industrial Engineering	2024
Görmüş, A. F., Markūnienė, I., Şentürk, K., Gönen, S., Barışkan, M. A., Karacayılmaz, G., Yılmaz, E. N.	Cybersecurity in Piezoelectric Biosensor for Sensing Application.	Innovations in Intelligent Systems and Applications Conference	2024
Türkkol, B. Z., Altuntaş, N., & Çekirdek Yavuz, S.	A Smooth Global Path Planning Method for Unmanned Surface Vehicles Using a Novel Combination of Rapidly Exploring Random Tree and Bézier Curves.	Sensors	2024
Hassanzadeh, Z.	An integration of fuzzy inference and adaptive neural network applied for LSEG fuel price forecasting.	Applied Soft Computing Journal	2024
Haşıloğlu A., Şenol M., Hassanzadeh Z., Taş O., Acar E.	Üretken Yapay Zeka Kullanılarak Beyin Kanserinin Tespiti ve Sınıflandırılması	Diğer	2024
Kopçasız, B.	Qualitative analysis and optical soliton solutions galore: scrutinizing the (2+1)-dimensional complex modified Korteweg–de Vries system.	Nonlinear Dynamics	2024
Kopçasız, B., & Yaşar, E.	M-truncated fractional form of the perturbed Chen– Lee–Liu equation: optical solitons, bifurcation, sensitivity analysis, and chaotic behaviors.	Optical and Quantum Electronics	2024
Kopçasız, B., & Yaşar, E.	Exploration of interactional phenomena and multi- wave solutions of the fractional-order dual-mode nonlinear Schrödinger equation.	Mathematical Methods in the Applied Sciences	2024
Kopçasız, B., & Yaşar, E.	Dual-mode nonlinear Schrödinger equation (DMNLSE): Lie group analysis, group invariant solutions, and conservation laws.	International Journal of Modern Physics B	2024
Kopçasız, B., & Yaşar, E.	Inquisition of optical soliton structure and qualitative analysis for the complex-coupled Kuralay system.	Modern Physics Letters B	2024
Kopçasız, B.	Unveiling New Exact Solutions of the Complex- Coupled Kuralay System Using the Generalized Riccati Equation Mapping Method.	Journal of mathematical sciences and modelling	2024
Kopçasız, B., & Yaşar, E.	μ-Symmetry Analysis, μ-Conservation Laws, And Exact Solutions Of The Modified Equal Width Equation.	Palestine Journal of Mathematics	2024
Kopçasız, B.	Analytical Treatments for the Zig-Zag Optical Lattices in Quantum Physics.	ICMUSTED	2024
Dağdeviren, A., Kürüz, F., & Catarino, P.	On Leonardo Pisano dual quaternions.	Journal of Information and Optimization Sciences	2024
Kaya, E., Çamlıoğlu, M., Ersoy, B. A., Onar, S., Hila, K., & Davvaz, B.	δ-primary subhypermodules on Krasner hyperrings.	Categories and General Algebraic Structures with Applications	2024

Author	Title	Journal	Year
Sezikli, N. M., Alkan, Ü., Zontul, M., & Elabiad, Z.	Forecast Analysis of Renewable Solar Energy Production Using Meteorological Data with Machine Learning Methods.	Havacılık ve Uzay Teknolojileri Dergisi	2024
Alkan, Ü.	Qualitative Analysis Of Health-Oriented Leadership In The Business Environment: Türkiye – Germany Sample	IMVHSC 8th International Medical, Veterinary and Health Sciences Congress	2024
Alnıacik, F., Yıldırım, F., Gönen, S., Alhan, B., Barışkan, M. A., Sayan, H. H., Yılmaz, E. N.	Artificial Intelligence-Supported Detection Systems on Embedded Devices.	El-Cezeri Journal of Science and Engineering	2024
Adigüzel, T., Kaya, M. H., & Cansu, F. K.	Revolutionizing education with AI: Exploring the transformative potential of ChatGPT.	Contemporary Educational Technology	2023
Altinişik, H. Z., Adigüzel, T., & Gençer, Y. G.	Adaptation of Youth Innovational Skills Measurement Tool for Turkish Usage.	Gazi Üniversitesi Kastamonu Eğitim Dergisi	2023
ADIGÜZEL, T., Kaya, M. H., Bulut, M. A., Mete, S. E., & Nalkesen-Akin, Y.	Integrating cognitive presence strategies: A professional development training for K-12 teachers.	Contemporary Educational Technology	2023
Adigüzel, T., Aşık, G., Bulut, M. A., Kaya, M. H., & Özel, S.	Teaching self-regulation through role modeling in K-12.	Frontiers in Education	2023
Kaya, M. H., & Adiguzel, T.	An E-Reflective Hybrid Professional Training for In-Service Teachers.	Boğaziçi Üniversitesi Eğitim Dergisi	2023
Şenol, M.	Innovation in Corporate Cyber Security	4th International Informatics and Software Engineering Conference	2023
Gönen, S.	A Novel Approach for RPL Based One and Multi- attacker Flood Attack Analysis.	12th International Symposium on Intelligent Manufacturing and Service Systems	2023
Onur, F., Barışkan, M. A., Gönen, S., Kubat, C., Tunay, M., & Yılmaz, E. N.	Detection of Cyber Attacks Targeting Autonomous Vehicles Using Machine Learning.	12th International Symposium on Intelligent Manufacturing and Service Systems	2023
Taştan, A. N., Gönen, S., Barışkan, M. A., Kubat, C., Kaplan, D. Y., & Pashaeı, E.	Detection of Man-in-the-Middle Attack Through Artificial Intelligence Algorithm.	12th International Symposium on Intelligent Manufacturing and Service Systems	2023
Gönen, S., Barışkan, M. A., Kaplan, D. Y., Yılmaz, E. N., & Çetin, A.	A Novel Approach Detection for False Data Injection, and Man in the Middle Attacks in IoT and IoT.	Transmission and Distribution International Conference and Exposition	2023
Gönen, S., Karacayilmaz, G., Artuner, H., Barışkan, M. A., & Yılmaz, E. N.	Cyber Attack Detection with Encrypted Network Connection Analysis.	12th International Symposium on Intelligent Manufacturing and Service Systems	2023
Kopçasız, B., & Yaşar, E.	Adaptation of Caputo residual power series scheme in solving nonlinear time fractional Schrödinger equations.	Optik	2023
Kopçasız, B., & Yaşar, E.	Analytical soliton solutions of the fractional order dual-mode nonlinear Schrödinger equation with time-space conformable sense by some procedures.	Optical and Quantum Electronics	2023
Kopçasız, B., & Yaşar, E.	\$\mu\$-Symmetries and \$\mu\$-Conservation Laws for The Nonlinear Dispersive Modified Benjamin- Bona-Mahony Equation.	Journal of mathematical sciences and modelling	2023
Kopçasız, B., & Yaşar, E.	The investigation of unique optical soliton solutions for dual-mode nonlinear Schrödinger's equation with new mechanisms.	Journal of Optics	2023
Kürüz, F., & Dağdeviren, A.	Pell and Pell-Lucas hybrid quaternions.	Filomat	2023
Xu, P., Bolat, M., Kaya, E., Onar, S., Ersoy, B. A., & Hila, K.	δ-r-hyperideals and φ-δ-r-hyperideals of commutative Krasner hyperrings.	Proceedings Of The Estonian Academy Of Sciences	2023

Author	Title	Journal	Year
Çamlıoğlu, M., Onar, S., & Ersoy, B. A.	Intuitionistic Fuzzy Soft Hyperalgebras.	Journal of Hyperstructures	2023
Ersoy, B. A., Onar, S., Kaya, E., Bolat, M., & Yavuz, S.	Intuitionistic (T,S)-Fuzzy Subhypernear-Modules.	15th Algebraic Hyperstructures and its Applications Conference	2023
Bolat, M., Ersoy, B. A., & Onar, S.	Intuitionistic fuzzy soft hyperalgebra	15th Algebraic Hyperstructures and its Applications Conference	2023
Erin, E., Caner Akın, G., & Alkan, Ü.	Ana Metal Sektöründe İş Sağlığı ve Güvenliğine İlişkin Değerlendirmeler ve Çözüm Önerileri.	Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi	2023
Yıldırım H., Noberi C.	Radyo Frekans Saldırılarında Otonom Araç Güvenliği	MEKON	2023
Çakar, T., Gülseven, B., Barışkan, M. A., & Erbayrak, S.	İstanbul İlinde Çalışma Hayatındaki Mesleki Gerilim Ve Stresin Araştırılması.	İstanbul Gelişim Üniversitesi Sosyal Bilimler Dergisi	2023

Books and Book Chapters

Author	Book	Year
Gönen, S.	Cyber Security In Space. Space Environment and International Politics (pp.175-207), London: Transnational Press LONDON.	2024
Adigüzel, T.	Matematiği bilgisayar bilimleri ile ilişkilendirme. Matematik Öğretiminde İlişkilendirme (pp.189-225), Ankara: Nobel Yayın Dağıtım.	2023
Yılmaz, E. N., & Gönen, S.	Örneklerle Uygulamalı C ve C++ . İstanbul: İstanbul Gelişim Üniversitesi Yayınları.	2023
Gönen, S., & Barışkan, M. A.	Siber Güvenlik ve Yapay Zeka Bölüm 16. Yapay Zeka Yöntemleri (pp.387-412), İstanbul: Papatya Bilim Yayınevi .	2023
Yılmaz, E. N., & Gönen, S.	Chapter 17 - Critical Infrastructure Security. Information Technologies Security (pp.431-458), Ankara: Nobel Yayın Dağıtım.	2023
Altuntaş, N.	Bölüm 13. Pekiştirmeli Öğrenme. Yapay Zeka Yöntemleri (pp.305-331), İstanbul: Papatya Yayıncılık.	2023
Akkasi, A., & Barışkan, M. A.	Derin Öğrenme ve Güncel Uygulamalar Bölüm 12. Yapay Zeka Yöntemleri (pp.281-304), İstanbul: Papatya Bilim Yayınevi.	2023

Projects

Author	Project	Year
Gönen S.	TechnoIntelligance Academy - Economic Cooperation Organization (ECO) Supported Project	2025
Kopçasız B.	Dinamik Araç Rotalama Problemlerinin Çözümünde Makine Öğrenmesi ve Sürdürülebilirlik Yaklaşımı - Higher Education Institutions Supported Project	2025
Hasan Yıldırım	Otonom Araçlardaki RF Saldırısına Karşı Araç Anahtar Güvenliği - İGÜ BAP	2025
Gönen S. (Yürütücü), Barışkan M. A.	CyberInnovators - Economic Cooperation Organization (ECO) Supported Project	2024
Şentürk K., Gönen S., Barışkan M. A., Erdoğan K., Acıman T., İnan Ü. E., et al.	PLC Sistemlerinde Gelişmiş Görüntü İşleme Performansı Optimizasyonu - Higher Education Institutions Supported Project	2024
Acıman T., Erdoğan K., Şentürk K., Barışkan M. A., Gönen S.	PLC Cihazlarının Siber Güvenlik Açıklıklarının Yapay Zeka Destekli Analizi ve Uzman Sistem Yardımıyla Saldırı Tespiti - Higher Education Institutions Supported Project	2024
Dr. Öğr. Üyesi Tarık Arabacı	Gökbatur Savaşan İha - Ar-Ge Projesi , İstanbul Gelişim Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Bilgisayar Mühendisliği (İngilizce) , Türkiye	2024
Adigüzel, T.	Learn and Experience Science Together Online	2024
Altuntaş N., Kürüz F., Uzun M.	Büyük Tamsayıların Çarpımına Yönelik Yeni Bir Etkin Algoritma Geliştirilmesi - Higher Education Institutions Supported Project	2024
Melis Çamlıoğlu	Sezgisel Bulanık Kümelerin Bazı Cebirsel Yapılara Uygulanması - Higher Education Institutions Supported Project	2024
Haşıloğlu A., Özyiğit H. A., Aykut E., Dumanlı M., Şenol M., Öztaş O., et al.	IGUROB: Yapay Zeka Destekli İnsansı Robot Tasarımı - İGÜ BAP	2024
Adıgüzel T., Durukan E., Akçay İ., Özmen E. R., Sayın A., Avcı E., Et Al.	6-14 Yaş Öğrenme Güçlüğü Riski Yaşayan Öğrencileri Belirlemek İçin Dijital Ölçek Hazırlama Ve Bireyselleştirilmiş Eğitim Programı Hazırlama-Uygulama Yazılımı Geliştirilmesi	2023
Gönen S., Barışkan M. A.	İGÜ Siber Akademi - Development Agency	2023
Maraşlı N., Gönen S., Altuntaş N., Karacayılmaz G.	İstanbul Gelişim Üniversitesi Siber Güvenlik Akademisi - Development Agency	2023
Gönen S.	Küçük Buluşlar Büyük Dünyalar Maraş Bilim Şenliği - TÜBİTAK Project	2023
Gönen S.	Küçük Buluşlar Büyük Dünyalar Maraş Bilim Şenliği 2 - TÜBİTAK Project	2023
Hassanzadeh Z.	Simulation of the navigation lock systems by a new hybrid Monte Carlo method via machine learning algorithms - TÜBİTAK Project	2023









EVENTS

CS-Innovator Program 2025

Implemented in collaboration between Istanbul Gelisim University and the Germany-based Proficiency Institute, and supported by the Institute of Innovation and Technology (EIT), the CyberShield Innovators: Shaping the Future of Digital Security program offers a comprehensive and high-quality educational experience for individuals seeking to specialize in cybersecurity. By participating in this prestigious program, the Department of Computer Engineering at Istanbul Gelisim University provides its students with access to cutting-edge technologies, the opportunity to learn in an international environment, and the chance to shape their careers on a global scale.



The Robot Investments Summit and Exhibition 2024

With the participation of the Head of the Computer Engineering Department, the Robot Investments Summit and Exhibition was held from December 18 to 21 at the Istanbul Expo Center in Yeşilköy. The event aims to showcase robotic automation and artificial intelligence solutions while fostering opportunities for collaboration





EVENTS

BİLMÖK 2024

BİLMÖK, where the Information Technologies of the Future were discussed, was held on March 9-10 at Istanbul Gelisim University. During the two-day event, computer engineering students came together with leading figures from the industry.



Huawei ICT Academy 2024

The Department of Computer Engineering participated in the Huawei ICT Academy event held on April 25, 2024, at Elite World Grand Hotel Küçükyalı. During the event, awards presented by the Huawei ICT Academy were given to their recipients.



EVENTS

IGÜCTF 2024

Aiming to encourage young talents in the field of cybersecurity and provide them with practical experience, İGÜCTF 2024 was held for the first time on June 22, 2024, by the Istanbul Gelisim University Cybersecurity Applications Club. Drawing significant interest from participants across Türkiye, the event was organized as a challenging 12-hour online Capture the Flag (CTF) competition.



Introduction to Cloud Technologies with the Cloud 101 Event 2024

The Cloud 101 event, aimed at equipping participants with fundamental knowledge and skills in cloud technologies, was held on Tuesday, December 26, 2024. As part of the event, various technical sessions were organized for attendees interested in stepping into the world of cloud computing.



TEKNOFEST 2024

As part of TEKNOFEST 2024, the Quantum Hackathon Competition held at Bilişim Vadisi brought together 75 teams and 250 participants from across Türkiye. The Department of Computer Engineering at Istanbul Gelisim University qualified for the finals, where innovative solutions were developed to address the organ donor-recipient matching problem using quantum technologies.



İGÜ Cyber Academy Training Programs 2024

The İGÜ Cyber Academy Project, initiated within Istanbul Gelisim University under the leadership of Dr. Serkan Gönen, Head of the Software Engineering Department at the Faculty of Engineering and Architecture, aims to train skilled professionals in the fields of artificial intelligence, programming, and cybersecurity. Starting from the foundational level, the training programs are designed to prepare participants for the demands of the professional workforce.



İGÜ TTO Workshop on Technological Studies 2024

A workshop was held at Istanbul Gelisim University (İGÜ) Technology Transfer Office (TTO) focusing on ongoing technological fields. The workshop brought together intern students from the Computer Engineering Department, TTO staff, mandatory interns, and long-term internship students to exchange ideas on technological areas such as artificial intelligence, aviation, mechanical design, cybersecurity, and automation.



9th International Conference on Computer Science and Engineering

Istanbul Gelisim University's Department of Computer Engineering participated in the 9th International Conference on Computer Science and Engineering (UBMK 2024). This conference, aimed at bringing together academics, researchers, and professionals from both public and private sectors working in computer engineering and related fields, focuses on sharing new and diverse research, studies, applications, and ideas. The main theme for this year's conference was set as generative artificial intelligence.



COST CA2204 Skopje / North Macedonia Working Group Meeting 2024

One of our faculty members, Dr. Mustafa Şenol, participated in the BEiNG-WISE Board of Directors and Working Group Meeting held on June 24–25, 2024, in Skopje, the capital of North Macedonia. The event was hosted by Saints Cyril and Methodius University.





COST Net4Brains Event 2024

Prof. Dr. Abdulsamet Haşıloğlu from Istanbul Gelisim University's Department Computer **Engineering** participated the **COST** in Net4Brains event held in Slovenia from September 4 to 6. 2024. He presented his the research use on of Generative AI technologies in the diagnosis and classification of brain cancer.

Student Graduation Project Presentations 2024

On June 26, 2024, student graduation project presentations were During these sessions. students successfully showcased knowledge and skills they acquired throughout their education bv presenting their projects. The presentations hold significant reflect the importance thev students' analytical thinking. problem-solving abilities. and innovative approaches.



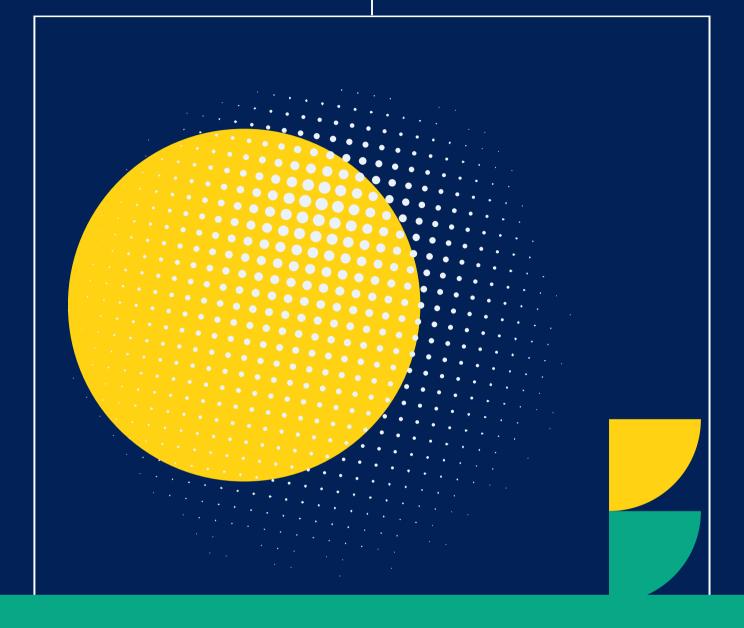
4th International Conference on Informatics and Software Engineering 2023

The 4th International Conference on Informatics and Software Engineering (IISEC 2023) was held on December 21–22, 2023, in Ankara at the Information and Communication Technologies Authority (ICTA). The conference took place both online and inperson. Istanbul Gelisim University's Department of Computer Engineering participated in the event. Since its inception, all IISEC conferences have been supported by IEEE.





research HIGHLIGHTS



GRADUATES

Alpay TOPRAK

2025 Graduate

During the university application period, I struggled to decide among many options. After researching various universities and visiting their campuses, I chose Istanbul Gelisim University. The primary reason for this decision was the modern infrastructure and state-of-the-art laboratories the university offers for computer engineering. Once I started my education, I had the opportunity to actively use these laboratories in courses and projects. The hands-on work and projects we completed reaffirmed the correctness of my choice. Throughout my university life, I made many friends from different departments, and learning from their fields broadened my vision. During this process, my interest in artificial intelligence and IoT (Internet of Things) technologies especially grew. To further develop this interest, I formed a team with my friends and participated in Teknofest's Unmanned Aerial Vehicle (UAV) category. This experience was both educational and highly enjoyable, while also improving my teamwork and project management skills. During our courses and lab applications, cybersecurity and data analytics particularly caught my attention. For this reason, I decided to shape my career in this field and, even before graduating, I took online courses, earned certifications, and contributed to open-source projects to improve myself. After graduating from the Computer Engineering Department in 2025, I started working as a software developer, applying the knowledge I gained in software development, data analysis, and system design throughout university. After gaining industry experience here, I aim to move to a larger company and focus on data analytics. I have sought opportunities to pursue passion, my true development. My future goal is to advance the knowledge and experience I acquired at Istanbul Gelisim University and in my workplace, and to continue my career as a mobile developer at leading global technology companies.

Faruk ADEM

2025 Graduate

During the university application process, I was undecided among many options. After researching various universities and visiting their campuses, I decided to choose Istanbul Gelisim University. A key factor in my decision was the university's advanced technology laboratories and infrastructure focused on game development for the Computer Engineering program. After starting my education, I frequently used these laboratories in courses and projects. The hands-on work we did with game engines such as Unity and Unreal Engine demonstrated how right my choice was. Throughout my university years, I made friends from different departments, and learning from their fields broadened my horizons. In particular, collaborating with friends from graphic design and sound engineering deepened my interest in game development. To pursue this passion further, we formed a team in Teknofest's Game Development Competition. participated Developing a mobile game we designed ourselves was both enjoyable and a valuable experience that enhanced my technical skills. Courses on game programming, artificial intelligence, and cybersecurity attracted my attention. I decided to shape my career in game programming and, even before graduating, started developing 2D/3D game projects with Unity, contributing to open-source game engines. Additionally, I strengthened my skills by taking online courses focused on game development. After graduating from the Computer Engineering Department in 2025, I began working as a game developer at a game studio, applying the programming, Al, and graphics processing knowledge I gained during university. I gained industry experience by contributing to several mobile game projects. Currently, I am working as a game programmer, focusing particularly on Alpowered game mechanics. My future goal is to use the knowledge and experience I have acquired to develop innovative games at internationally recognized studios and eventually establish my own game studio to create original projects.



research HIGHLIGHTS



FACULTY OF ENGINEERING AND ARCHITECTURE

ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC STAFF



Asst. Prof. Peri GÜNEŞ Ph.D.İstanbul University



Prof. Bayram ÜNAL Ph.D. Yıldız Teknik University



Asst. Prof. Ercan AYKUT Ph.D. Marmara University



Asst. Prof. Ayşe KARAOĞLU Ph.D. Ege University



Asst. Prof. Banafsheh Alizadeh ARASHLOO Ph.D. Urumiye University



Asst. Prof. Halit YAHYA Ph.D Kocaeli University



Asst. Prof. Turgut ŞAHİN Phd Balıkesir University



Res. Asst Elif ÖZTÜRK



Res. Asst. Beray İKİNCİ

Number of Students: 250

First Year of the Department: 2015

Number of Internship Days: 30+30 = 60 Days

Accreditation Status: ABET

Purpose of the Department

The aim of the four-year undergraduate program is to train engineers who are equipped with knowledge and skills in Electrical-Electronic Engineering and related disciplines, who can monitor and question new technologies and developments, who can develop new designs, who are beneficial to society, environmentally conscious, and respectful of human rights.



Some Lessons:

- Circuit Analysis
- Electronic
- Electromagnetism
- Electrical Machines

Research Fields



ELECTRONIC

COMMUNICATION TECHNOLOGIES

ELECTROMAGNETIC

SIGNAL PROCESSING

ENERGY PRODUCTION

POWER SYSTEMS

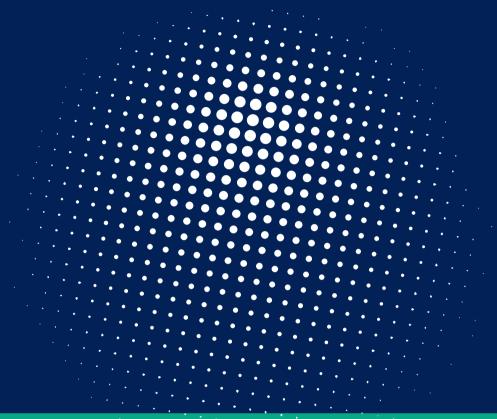
Istanbul Gelisim University

The curriculum of the Electrical and Electronics Engineering Department has been approved by ABET (Accreditation Board for Engineering and Technology).











DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	B Arasteh, P Gunes, A Bouyer, A Rouhi, R Ghanbarzadeh	A hybrid chaos-based algorithm for data object replication in distributed systems	International Journal of General Systems	cilt.53, sa.7- 8, ss.831- 862, 2024 (SCI- Expanded	2024
EEE	P GÜNEŞ, KA MAHMOODI, M ÜLKGÜN	Efficient Time Allocation Strategies in Satellite Communication Networks	International Journal of Multidisciplinary Studies and Innovative Technologie	cilt.8, sa.2, ss.159-162, (Tam Metin Bildiri)	2024
EEE	C TOPÇU, P GÜNEŞ	Bitki hastalıklarını tespitte derin öğrenme: ResNet modelinin etkinliği	Anadolu Bil Meslek Yüksekokulu Dergisi	cilt.19, sa.69, ss.31- 65, (Tam Metin Bildiri)	2024
EEE	ARASTEH B., SADEGI R., ARASTEH K., GUNES P., KIANI F., TORKAMANIAN -AFSHAR M.	A bioinspired discrete heuristic algorithm to generate the effective structural model of a program source code	Journal of King Saud University - Computer and Information Sciences	cilt.35, sa.8, 2023 (SCI- Expanded)	2023
EEE	PURA T., GÜNEŞ P., GÜNEŞ A., HAMEED A. A.	Earthquake Prediction for the Düzce Province in the Marmara Region Using Artificial Intelligence	Applied Sciences (Switzerland)	cilt.13, sa.15, 2023 (SCI- Expanded)	2023
EEE	ARASTEH B., GHAREHCHOP OGH F. S., GUNES P., KIANI F., TORKAMANIAN -AFSHAR M.	A Novel Metaheuristic Based Method for Software Mutation Test Using the Discretized and Modified Forrest Optimization Algorithm	Journal of Electronic Testing: Theory and Applications (JETTA)	cilt.39, sa.3, ss.347-370, 2023 (SCI- Expanded)	2023

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	KHODAEI A., GÜNEŞ P., SHARIFI H., MOZAFFARI-TAZEHKAND B.	Identification and classification of coronavirus genomic signals based on linear predictive coding and machine learning methods	Biomedical Signal Processing and Control ,	cilt.80, 2023 (SCI- Expand ed)	2023
EEE	ARASTEH B., GUNES P., BOUYER A., SOLEIMANIAN GHAREHCHOPOGH F., ALIPOUR BANAEI H.,	A Modified Horse Herd Optimization Algorithm and Its Application in the Program Source Code Clustering	Ghanbarzad eh R. Complexity ,	cilt.202 3, 2023 (SCI- Expand ed)	2023
EEE	ALIYEV H., GÜNEŞ P	Makine öğrenme algoritmalarını kullanan duygu tahminine dayalı müzik öneri sistemi Music recommendation system based on emotion prediction using machine learning algorithms	Anadolu bil meslek yüksekokulu dergisi	cilt.18, 2023 (Hake mli Dergi)	2023
EEE	ÜNAL B., BAYKAL A., ALMESSIERE M., MIHMANLI A	Influence of temperature and selenium substitution on electrical and dielectric characteristics of CoFe2O4 nanoparticles	Journal of the Indian Chemical Society	cilt.102, sa.4, 2025 (SCI- Expand ed)	2025
EEE	ALMESSIERE M., ÜNAL B., BAYKAL A., KORKMAZ A. D., GONDAL M., SLIMANI Y., ET AL.	Exploring dielectric and electrical characteristics in Sr0.5Ba0.5SnxFe12-xO19/CoFe2O4 nanocomposites	Ceramics International	cilt.50, sa.24, ss.5233 0- 52343, 2024 (SCI- Expand ed)	2024
EEE	ÜNAL B., Baykal A., Almessiere M., Manikandan A., Slimani Y., Ul- Hamid A.	Exploration of electrical and dielectric properties of Ho- substituted SrBa-hexaferrite/Ni- spinel ferrite nanocomposites	Journal of Materials Science: Materials in Electronics	cilt.35, sa.34, 2024 (SCI- Expand ed)	2024

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	ÜNAL B., ALMESSIERE M., BAYKAL A., SLIMANI Y., GONDAL M., KIAN- POUR N., ET AL.	Comprehensive analysis of Ni0.4Cu0.2Zn0.4Fe2-4xSn3xO4 nanospinel ferrites: Structural, electrical, and dielectric characterization through advanced techniques	Ceramics International ,	cilt.50, sa.17, ss.306 70- 30682 , 2024 (SCI- Expan ded)	2024
EEE	SLIMANI Y., ÜNAL B., BAYKAL A., ALMESSIERE M., THAKUR A., BATOO K.	Unraveling the dielectric and electrical properties of binary BaTiO3/Ba0.98Ca0.01Mg0.01Fe1 2019 composites	Journal of Physics and Chemistry of Solids ,	cilt.191 , 2024 (SCI- Expan ded)	2024
EEE	SLIMANI Y., ÜNAL B., BAYKAL A., ALMESSIERE M. A., THAKUR A., SHARIQ M.	Investigation of electrical and dielectric properties of BaTiO3-based composite systems incorporated with various amounts of Co0.8Mn0.1Ni0.1Fe1.9Ce0.1O4	Journal of Materials Science: Materials in Electronics	cilt.35, sa.13, 2024 (SCI- Expan ded)	2024
EEE	ÜNAL B., ALMESSIERE M., BAYKAL A., KORKMAZ A. D., GONDAL M., SLIMANI Y.	Investigation of substitutional impact of vanadium ion (V3+) over conductivity and dielectric features of SrCo hexaferrites	Applied Physics A: Materials Science and Processing	cilt.12 9, sa.12, 2023 (SCI- Expan ded)	2024
EEE	ÜNAL B., ALMESSIERE M., SLIMANI Y., JERMY R., BAYKAL A.	The role of Mo6+ ion substitution on the electrical and dielectric features of SrNi- hexaferrites	Journal of Materials Science: Materials in Electronics ,	cilt.34, sa.17, 2023 (SCI- Expan ded)	2023

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	ÜNAL B., ALMESSIERE M., AUWAL I., SLIMANI Y., BAYKAL A.	The role of Pr3+, Pr3+-Y3+ and Pr3+-Y3+-Dy3+ ions substitutions on the electrical and dielectric properties of NiCo nanospinel ferrites	Journal of Alloys and Compounds ,	cilt.944, 2023 (SCI- Expanded) d)	2023
EEE	ÜNAL B., ALMESSIERE M., BAYKAL A., SLIMANI Y., SADAQAT A., UL- HAMID A.	A study on the electrical and dielectric traits of ternary NiCuZn-spinel ferrites co- substituted with Ga3+-Gd3+ ions	Materials Science and Engineering: B	cilt.289, 2023 (SCI- Expanded)	2023
EEE	AKHTAR S., ALMESSIERE M., ÜNAL B., KORKMAZ A. D., SLIMANI Y., TASHKANDI N., ET AL.	Electrical and dielectric properties of Ni0.5Co0.5GaxFe1.8-xO4 (x ≤ 1.0) spinel ferrite microspheres	Journal of Rare Earths	cilt.41, sa.2, ss.259-267, 2023 (SCI- Expanded)	2023
EEE	DURSUN B., AYKUT E.	Wind energy potential and large-scale turbine performance analysis for Mogadishu - Somalia	Energy for Sustainable Development	cilt.81, 2024 (SCI- Expanded)	2024
EEE	AYKUT E., DURSUN B.	The significance, potential and the current use of renewable energy in TR83 region, Türkiye	International Journal of Environmental Science and Technology	cilt.21, sa.6, ss.5513- 5528, 2024 (SCI- Expanded)	2024
EEE	AYKUT E., HAWAS S	Application of LoRa Technology in Photovoltaic Systems,	Celal Bayar Üniversitesi Fen Bilimleri Dergisi	cilt.20, sa.4, ss.1-11, 2024 (Hakemli Dergi)	2024

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	AYKUT E., ALSHURAIDA I.	Grid Integration Strategies for Optimizing Renewable Energy Deployment and Grid Resilience	Balkan Journal of Electrical and Computer Engineering	cilt.12, sa.3, ss.247- 254, 2024 (Hakeml i Dergi)	2024
EEE	ÇETINKAYA A., AYKUT E.	ÜRETKEN YAPAY ZEKA İLE DİJİTAL DÖNÜŞÜM: GELECEĞİN KARİYER ALANLARI	YENİ NESİL YAPAY ZEKÂ YAKLAŞIMLARI: YAZILIM, KARİYER VE SİNİRSEL MİMARİLER ÜZERİNE, EYYÜP GÜLBANDILAR	Editör, Bidge Yayınları , Ankara, ss.40-54, 2025	2024
EEE	DURSUN B., AYKUT E.	Yenilenebilir Güç Üretim Sistemlerinin Modellenmesi ve Optimizasyonu	Elektrik Elektronik ve Kontrol Mühendisliği Alanında Farklı Yaklaşımlar, ÜZMUŞ HASAN,	Editör, Bidge Yayınları , ss.243- 261, 2024	2024
EEE	DURSUN B., AYKUT E.	Wind energy potential and large- scale turbine performance analysis for Mogadishu - Somalia	Energy for Sustainable Development	cilt.81, 2024 (SCI- Expand ed)	2024
EEE	AYKUT E., DURSUN B.	The significance, potential and the current use of renewable energy in TR83 region, Türkiye	International Journal of Environmental Science and Technology	cilt.21, sa.6, ss.5513- 5528, 2024 (SCI- Expand ed)	2024



DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	<u>AYKUT E., HAWAS</u> <u>S</u>	<u>Application of LoRa Technology</u> in Photovoltaic Systems	<u>Celal Bayar</u> Üniversitesi Fen Bilimleri Dergisi	cilt.20. sa.4, ss.1- 11. 2024 (Hakemli Dergi)	2024
EEE	<u>AYKUT E.,</u> ALSHURAIDA I.	<u>Crid Integration Strategies for</u> <u>Optimizing Renewable Energy</u> <u>Deployment and Crid Resilience</u>	Balkan Journal of Electrical and Computer Engineering	cilt.12, sa.3, ss.247- 254, 2024 (Hakemli Dergi)	2024
EEE	ÇETINKAYA A AYKUT E.	<u>ÜRETKEN YAPAY ZEKA İLE</u> <u>DİJİTAL DÖNÜŞÜM: GELECEĞİN</u> KARİYER ALANLARI	YENİ NESİL YAPAY ZEKÂ YAKLAŞIMLARI: YAZILIM, KARİYER VE SİNİRSEL MİMARİLER ÜZERİNE, EYYÜP GÜLBANDILAR	Editör, Bidge Yayınları, Ankara, ss.40-54, 2025	2024
EEE	<u>DURSUN B.,</u> AYKUT E.	<u>Yenilenebilir Güç Üretim</u> <u>Sistemlerinin Modellenmesi ve</u> <u>Optimizasyonu</u>	Elektrik Elektronik ve Kontrol Mühendisliği Alanında Farklı Yaklaşımlar, ÜZMUŞ HASAN, Editör	<u>Bidge</u> <u>Yayınları,</u> ss.243-261, 2024	2024
EEE	AGIEB R., MANSOUR I., AMER A., SOLYMAN A. A. A., YAHYA K., SAMIR A.	Improving Energy Harvesting System from Ambient RF Sources in Social Systems with Overcrowding	International Journal of Crowd Science	cilt.9, sa.1, ss.13-28, 2025 (Scopus)	2025
EEE	AL-MAYYAHI S., YAHYA H., YAHYA A. E. M., SARREB R. D., ALDABABSA <u>M.</u>	Machine Learning Techniques for Solar Power Output Predicting	International Journal of Smart Crid	<u>cilt.8, sa.2,</u> <u>ss.98-107,</u> <u>2024</u> (<u>Scopus)</u>	2024

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	SAFAEI M., YAHYA K., DAWSARI S. A.	A Comprehensive Evaluation Model for Sustainable Supply Chain Capabilities in the Energy Sector	Sustainability (Switzerland)	cilt.16, sa.21, 2024 (SCI- Expanded)	2024
EEE	SAFAEI M., DAWSARI S. A., YAHYA K.	Optimizing Multi-Channel Green Supply Chain Dynamics with Renewable Energy Integration and Emissions Reduction	Sustainability (Switzerland)	cilt.16, sa.22, 2024 (SCI- Expanded)	2024
EEE	Kumson P. K., Aldababsa M., YAHYA H., Obaid M., Mwais A. A.	Performance analysis of majority- based transmit antenna selection and maximal ratio combining in MIMO-NOMA networks	Annales des Telecommunications/ Annals of Telecommunications ,	cilt.79, sa.7- 8, ss.567- 576, 2024 (SCI- Expanded)	2024
EEE	MAHMOOD K., GHAFFAR Z., FAROOQ M., YAHYA H., DAS A. K., CHAUDHRY S. A.	A Security Enhanced Chaotic- Map Based Authentication Protocol for Internet of Drones	IEEE Internet of Things Journal	cilt.11, sa.12, ss.22301- 22309, 2024 (SCI- Expanded)	2024
EEE	AL-QARAHGHLI I., YAHYA H., ALDABABSA M.	Outage performance analysis of antenna selection schemes in UAV-assisted networks	AEU - International Journal of Electronics and Communications ,	cilt.178, 2024 (SCI- Expanded)	2024
EEE	SINGLA M. K., GUPTA J., ALSHARIF M. H., JAHID A., YAHYA K.	Sustainable Development of a Direct Methanol Fuel Cell Using the Enhanced LSHADE Algorithm and Newton Raphson Method	Sustainability (Switzerland)	cilt.16, sa.1, 2024 (SCI- Expanded)	2024
EEE	SAID G., ULLAH A., GHANI A., AZEEM M., YAHYA H., BILAL M., ET AL.	Hash Table Assisted Efficient File Level De-Duplication Scheme in SD-IoV Assisted Sensing Devices	Intelligent Automation and Soft Computing	cilt.38, sa.1, ss.83-99, 2024 (SCI- Expanded)	2024

DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
EEE	CETIN M., KOKCE M., KARAOĞLU A., KALAOGLU E., KIBAR H., SEZIKLI S., ET AL.	Enhancing motor performance through brief skin cooling: exploring the role of enhanced sympathetic tone and muscle spindle sensitivity	European Journal of Applied Physiology	cilt.125, sa.2, ss.443-453, 2025 (SCI- Expanded)	2025
EEE	KILIC A., SOYTÜRK G., KARAOGLU A., TOPKARA ARSLAN B., KARACAN I., TÜRKER K. S.	A reliability study on the cumulative averaging method for estimating effective stimulus time in vibration studies	Journal of Electromyography and Kinesiology ,	cilt.70, 2023 (SCI- Expanded)	2023
EEE	KARACAN I., TOPKARA ARSLAN B., KARAOĞLU A., AYDIN T., GRAY S., UNGAN P., ET AL.	Estimating and minimizing movement artifacts in surface electromyogram	Journal of Electromyography and Kinesiology ,	cilt.70, 2023 (SCI- Expanded)	2023
EEE	ALIZADEH ARASHLOO B.	The Quantum Transport Characteristic of Graphene-γ2 Graphyne Nano-Ribbon Junction	International conference on nanoscience nanotechnology and Nanoengineering , Melaka, Malezya,	21 - 25 Nisan 2025, ss.21- 25, (Tam Metin Bildiri)	2025
EEE	A TEKGUL, T SAHIN, H KOCKAR, M ALPER	Giant Magnetoresistance of the Electrodeposited FeCoCu/CuMultilayers: Metal Oxide Formation with NaOH in the Electrolyte.	Polish Acad Sciences Inst Physics	cilt.143, ss.262-269, 2023 (SCI- Expanded)	2023
EEE	M. C. MUMCU, IKINCI B. OZTURK E	Low Power Consumption Data Security Implementation for Artificial Intelligence Based Smart Systems,"	Engineering Science and Technology , Durres, Albania,	pp.3, 2024	2024
EEE	M. C. MUMCU, IKINCI B. OZTURK E	Performance Analysis of Deep Learning Algorithms for Classification of EEG Signals," Engineering Science and Technology , Durres, Albania, pp.12, 2024	Engineering Science and Technology , Durres, Albania,	pp.12, 2024	2024



2 PATENTS

2023/007509 23.06.2023

Ercan AYKUT

AUTOMATIC HORIZONTAL TRANSITION AND ADAPTATION CALCULATION SYSTEM

2023/004787 28.04.2023 Ercan AYKUT PID CONTROLLED IRON

AWARDS

"At the Academic Performance Award Ceremony traditionally organized every year by Istanbul Gelişim University, our department faculty members Prof. Bayram ÜNAL, Asst. Prof. Ercan AYKUT, and Asst. Prof. Halit YAHYA were among those deemed worthy of awards for their successful academic work."



TOTAL
50







- 4 Books & Book Chapters
- 2 Patents







research HIGHLIGHTS



EVENTS





On Wednesday, March 12, 2025, Dr. Lecturer Halit Yahya took part as the keynote speaker at international conferences.

(ABET) Committee visited Istanbul Gelişim
University between 15-19 November 2024, within
the scope of the renewal of international
accreditation of academic programs.





On Thursday, May 2, 2024, the Sector Talks-2 event was held with the participation of Aykut Tutkun from Demsay Elektronik A.Ş.

A workshop on fields such as artificial intelligence, aviation, mechanical design, cybersecurity and automation was held at the Istanbul Gelişim University Technology Transfer Office with the participation of intern students.



The A-Tech 2024 Fair became a comprehensive meeting point where innovative technologies in electrical and electronics engineering were showcased, from smart building systems to sustainable energy solutions.



Within the scope of the 7th International Conferences on Science and Technology held this year in Durres, Albania, two papers were successfully presented by academicians of Gelişim Vocational School Electrical Program and Electrical-Electronic Engineering Department.



Career and Job Opportunities in Power Engineering and Transformer Maintenance Engineering. Sector Talks-1 event, with the participation of Ramazan Aksoy from Aksoy Transformer and Engineering Company, was held on April 25, 2024, at 2:00 PM in Tower Hall 701. All students interested in the sector and wishing to learn more are invited.

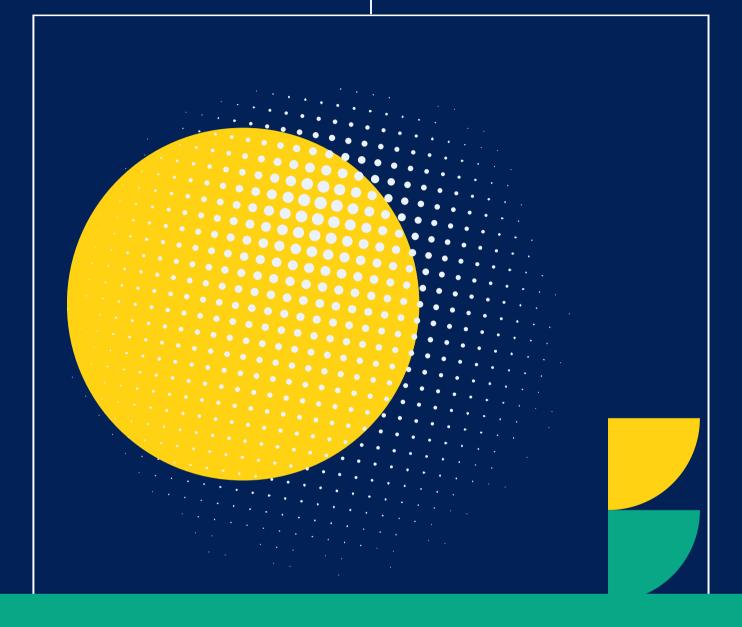


The "Electronic Circuits Project Exhibition", which showcased 36 projects by students of Aviation Electrical and Electronics Engineering and Electrical and Electronics Engineering at Istanbul Gelişim University and formed the basis for TEKNOFEST applications, was successfully held with the participation of academicians and students.





research HIGHLIGHTS



GRADUATES

Zeynel Akdogan 2023 graduate Deneyap Türkiye – Advanced Robotics Trainer



"In today's world where robotics and artificial intelligence fields are rapidly developing, my dream of becoming an instructor who guides these technologies has become a reality thanks to the academic journey I started at Istanbul Gelişim University, Department of Electrical and Electronics Engineering.

The deciding factors in my university choice were its competent academic staff, its laboratory infrastructure that prioritizes hands-on learning, and its student-centered approach. Today, we connect with young people and provide advanced robotics training under the umbrella of Deneyap Turkey, a result of this solid foundation.

The multidisciplinary nature of Electrical and Electronics Engineering encouraged me to think both technically and creatively. Thanks to the project-based learning approach, I gained self-confidence and learned R&D-based thinking, taking an active role within a team, and developing a solution-focused approach.

At Istanbul Gelişim University, I became an active student not only academically but also socially. This period, filled with clubs, workshops, competitions, and volunteering, contributed to both my personal development and my social awareness.

"Today, I know that my university gave me not just a diploma, but a vision. My first step toward development was the most solid step toward my future."



Ugur Aycan 2021 Graduate ALKARA Telecommunications – Project Manager



"Being a project manager in a rapidly evolving industry like telecommunications requires a strong combination of technical expertise, strategic thinking, and leadership skills. Istanbul Gelişim University's Department of Electrical and Electronics Engineering was where I gained all these skills."

During my years at university, I had the opportunity to learn not only theoretical knowledge but also practical engineering solutions. The project-based learning system, in particular, has greatly contributed to my success in my current role. Through both field practice and laboratory infrastructure, I gained the ability to apply the engineering discipline to the field.

Istanbul Gelişim University's dynamic faculty, with their personalized attention and guidance, enables every student to reach their full potential. Furthermore, thanks to the campus environment, social clubs, and industry-focused activities, I've learned to view engineering not just as a technical field but as a life vision.

When managing projects today, not only technical proficiency but also people management, time planning, and solution-focused thinking are crucial. The training I received at Gelişim University has helped me achieve this by equipping me with this multifaceted thinking ability.

Indeed, my choice of university was the most strategic step I took for my future."

Mustafa Atasever Gaye Elektrik, Graduate of 2020 Electrical and Electronics Engineer



"Electrical and Electronic Engineering is a profession that encompasses a wide range of fields, from energy management and automation to control systems and communications, and is always open to development. Starting this journey at Istanbul Gelişim University was one of the best steps in my professional career."

Throughout my university years, I not only acquired theoretical knowledge, but also prepared myself for the field through active laboratory work, technical trips, and hands-on projects. Thanks to the skills I gained at Gaye Elektrik, I've now made a rapid and strong entry into my professional life.

The experience of the academic staff and their one-on-one attention to students elevate the quality of education to the highest level. With the support provided to me at Gelişim, I had the opportunity to develop my skills in problem-solving, technical analysis, and project management.

University shouldn't just provide a diploma, it should also provide a vision. Istanbul Gelişim University has amply provided this vision, transforming me into a strong engineer both personally and professionally. Every solid step I take today in developing solutions in the field bears the traces of this education.







FACULTY OF ENGINEERING AND ARCHITECTURE

INDUSTRIAL ENGINEERING

ACADEMIC STAFF



Prof. Tarık ÇAKAR Ph.D. Istanbul Technical University



Prof. Kenan ÖZDEN Ph.D. Ege University



Prof. Cemalettin KUBAT Ph.D. İstanbul University



Prof. Yılmaz ÖZKAN Ph.D. İstanbul University



Asst. Prof. Didem YILMAZ Ph.D. İstanbul University



Asst. Prof. Binnur AKIF Ph.D. İstanbul University-Cerrahpaşa



Asst. Prof. Seda ERBAYRAK Ph.D. Yıldız Teknik University



Asst. Prof. Nurdan TÜYSÜZ Ph.D.Istanbul Technical University



Asst. Prof. Mert YILDIRIM Ph.D. İstanbul University-Cerrahpaşa



Res. Asst. Duygu TÜYLÜ



Res. Asst. Nesrin KOLUKIRIK

INDUSTRIAL ENGINEERING

Number of Students: 178
Department Opening Year: 2011

Accreditation Status: ABET



The Department's Purpose

To train our graduates as contemporary and qualified Industrial Engineers who, through the knowledge and skills they acquire during their undergraduate education, are equipped and qualified to improve, design, and manage business systems and processes in businesses and organizations in an environmentally sound manner, in line with the principles of effectiveness, efficiency, profitability, flexibility, sensitivity, sustainability, and high quality. They also possess strong social responsibility and professional ethics.

Some Courses:

- Operations Research
- Work Study
- Production and Operations Man
- Ergonomics
- Production Planning and Control

INDUSTRIAL ENGINEERING

RESEARCH AREAS

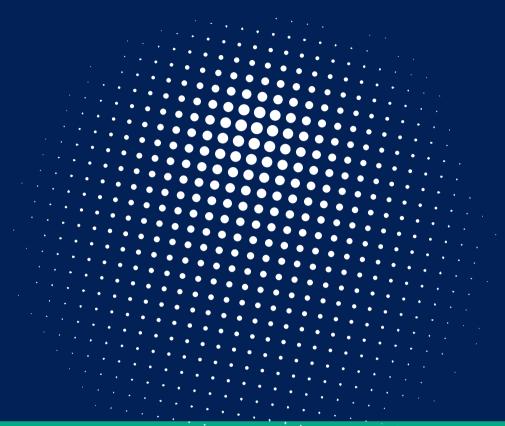


The curriculum of Industrial
Engineering Department has been
approved by ABET (Accreditation
Board for Engineering and
Technology).

- Genetic Algorithms and Particle Swarm Optimization
- Operations Research
- Optimization
- Statistical Quality Control
- Decision Making and Decision Theory
- Fuzzy Logic







TOTAL

5 1











AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
T Çakar, B Gülseven, MA Barışkan, S Erbayrak	Research on Occupational Tension and Stress in Working Life in Istanbul Province	Istanbul GeliŞim University Journal of Social Sciences	2023
D Kalawi, T Cakar , B Gurul	Design of sustainable campus modal in Istanbul Gelisim University using fuzzy multicriteria decision making methods	Journal of Intelligent & Fuzzy Systems	2023
T Çakar , B Akif, MB Kebbe	Analysis of The Effect of The COVID- 19 Pandemic on Customer Satisfaction and The Airline Passenger Transportation Sector	Journal of Intelligent & Fuzzy Systems	2025
K Özden , A Tahsin	Line Balancing Based on Error Rate Estimation with Artificial Neural Networks in Assembly Line Operations	Istanbul Gelişim University Journal of Social Sciences	2023
K Özden , O Akzade	A Conceptual Framework for Studying the Effectiveness of Ballistic Missile Defence System (BMDS) and a Proposed Model	Istanbul GeliŞim University Journal of Social Sciences	2024
K Özden , R Engin	A Market Share Research Model with Markov Chains and an Implementation on Smart Phones	International Journal of Engineering Technologies Dergisi	2024
İ Saraçoğlu, K Özden , S Canca, E Ulusoy	Improvement of Sales Processes with Lean Six Sigma Methodology in the Automotive Industry	Istanbul GeliŞim University Journal of Social Sciences	2024
K Ozden , D Tuylu, A Gürel	An Anthropometric Study on Turkish Adult Men and Women and Comparison with Previous Research Results	29th National Ergonomics Congress	2023

AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
F Onur, S Gönen, MA Barışkan, C Kubat , M Tunay, EN Yılmaz	Machine learning-based identification of cybersecurity threats affecting autonomous vehicle system	Computers and Industrial Engineering	2024
AN Taştan, S Gönen, MA Barışkan, C Kubat , DY Kaplan, E Pashaei	MA Barışkan, C Kubat , Attack Through Artificial Manufactur		2023
F Onur, MA Barışkan, S Gönen, C Kubat , M Tunay, EN Yılmaz	Detection of Cyber Attacks Targeting Autonomous Vehicles Using Machine Learning	12th International Symposium on Intelligent Manufacturing and Service Systems Kongresi	2023
B Taşkan, B Karatop, C Kubat	A Fuzzy Logic Approach for Corporate Performance Evaluation	12th International Symposium on Intelligent Manufacturing and Service Systems Kongresi	2023
O Yakıt, Y Özkan	Using Artificial Neural Networks to Forecast Sales Quantities of Vented Combi Boilers and Its Importance in Supply Chain Management	Gümüşhane University Journal of Social Sciences	2024
Z Ürük, D Yılmaz	Proposal to Rearrange the Sleeping Areas and Wet Areas of Private Nursing Homes in Istanbul for Elderly Individuals	Central Black Sea Disabled and Elderly Health Congress	2023

AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
D Yilmaz	Decision Tree Study for Determining Occupational Safety Risks Supported by Artificial Intelligence	43rd National Congress on Operations Research and Industrial Engineering	2024
D Yilmaz , E Adıgüzel, D Tüylü	Investigating the Effect of Lean Thinking on Employee Motivation in a Business	International Symposium for Production Research (ISPR)	2024
D Yilmaz , D Tüylü, S Yalınız	Application of the Fine-Kinney Method to Risk Analysis in the Chemical Industry	44th National Congress on Operations Research and Industrial Engineering	2025
<u>S</u> Aybar, B Gürül , HE Karatürk	The Effect of the Japanese Lean Production Management Model on Employee Productivity in the Turkish Manufacturing Industry: An Application in the Automotive Industry	Journal of Business Research Dergisi	2023
D Kalawi, T Cakar, B Gurul	Design of sustainable campus modal in Istanbul Gelisim University using fuzzy multicriteria decision making methods	Journal of Intelligent & Fuzzy Systems	2023
B Gürül , D Yilmaz, SB KiriŞ	Sustainability performance of food supply chains with internal and external evaluation perspectives	IMA Journal of Management Mathematics	2024
T Çakar, B Akif , MB Kebbe	Analysis of The Effect of The COVID-19 Pandemic on Customer Satisfaction and The Airline Passenger Transportation Sector	Journal of Intelligent & Fuzzy Systems	2025
E Pashaei, B Gürül	Enhancing Stock Price Prediction with Extreme Learning Machine and Multi-Indicator Fusion: A Comparative Study	24. International Symposium for Production Research Kongresi	2024

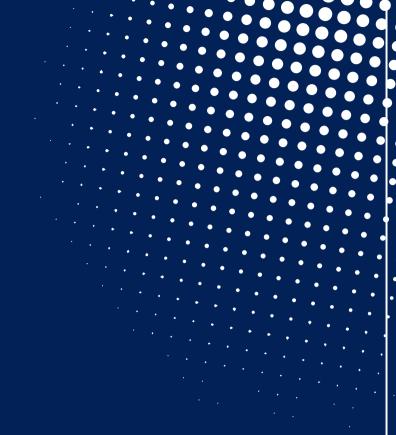
AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
B Akif	Decision Tree Study for Determining Occupational Safety Risks Supported by Artificial Intelligence	43rd National Congress on Operations Research and Industrial Engineering	2024
B Akif	Sustainable Production Indicators and Corporate Sustainability Performance	Nobel Academic Publishing	2023
B Akif	Chapter of Production Management Information Systems	Business and Management Information Systems in Strategic Management	2024
B Akif	Management and Organization in Businesses	Beta Publishing Printing	2024
T Çakar, B Gülseven, MA Barışkan, S Erbayrak	Hension and Stress in Working Life Huniversity Journal of		2023
T Acıman, S Erbayrak , OM Halat	Forecasting Analysis of Wind Speed Using Polynomial Regression and Artificial Neural Network	9th Socrates Health, Engineering and Applied Sciences Kongresi	2024
N Tüysüz, C Kahraman	A Novel Z-Fuzzy AHP&EDAS Methodology and Its Application to Wind Turbine Selection	Informatica	2023
N Tüysüz, C Kahraman	A novel decomposed Z-fuzzy TOPSIS method with functional and dysfunctional judgments: An application to transfer center location selection	Engineering Applications of Artificial Intelligence	2024

AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
N Tüysüz, C Kahraman	An Integrated Picture Fuzzy Z- AHP & TOPSIS Methodology: Application to Solar Panel Selection	Applied Soft Computing	2024
N Tüysüz, C Kahraman	Interval-Valued Spherical Fuzzy Z-AHP Method Based on Reliability of Judgments: Green Supplier Selection	Journal of Multiple- Valued Logic and Soft Computing (MVLSC)	2024
N Tüysüz, C Kahraman	Picture Fuzzy Z-AHP: Application to Panel Selection of Solar Energ	Intelligent and Fuzzy Systems Kongresi	2023
N Tüysüz, C Kahraman	Novel Decomposed Spherical Fuzzy Sets and Its TOPSIS Extension	Intelligent and Fuzzy Systems Congress	2024
N Tüysüz, F Tüysüz	Novel Decomposed Fermatean Fuzzy Sets and an Application to TOPSIS method Intelligent and Fuzzy Systems Congress		2025
M Yildirim , I Mutlu, Z Candan	Development and characterization of smart composites reinforced with fibrillated cellulose and nickel titanium allow	International Journal of Biological Macromolecules	2024
M Yildirim , Z Candan	Preparation and Characterization of Transparent Advanced Smart Nanocomposites Reinforced by Nanofibrillated Cellulose/Poly(methyl methacrylate)/Methyl Methacrylate/Benzoyl Peroxide	BioResources	2024

AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
M Yildirim, I Mutlu, Z Candan	Thermal properties of cellulose nanofibrils and nickel-titanium alloy-reinforced sustainable smart composites	Wood Material Science and Engineering	2024
M Yildirim , Z Candan, T Akbulut, DJ Gardner	Performance Characterization Of Plywood Panels Bonded With Melamine-Urea-Formaldehyde Resin And Cellulose Nanofibril/Borax As An Additive	onded With aldehyde Maderas: Ciencia y Tecnologia	
M Yildirim , Z Candan	An Insight into the Next- Generation Smart Membranes	7th International Electronic Conference on Water Sciences, Kongresi'	2024
YS Türkan, E Alioğulları, D Tüylü	Optimizing Location Selection for International Education Fairs: An Interval-Valued Neutrosophic Fuzzy Technique for Order of Preference by Similarity to Ideal Solution Approach	Sustainability	2024
K Ozden, D Tüylü , A Gürel	An Anthropometric Study on Turkish Adult Men and Women and Comparison with Previous Research Results	29th National Ergonomics Congress	2023
D Tüylü , AF Güneri	Additive Manufacturing: Fuzzy Logic Strategies In The Manufacturing Of The Future	Intelligent and Fuzzy Systems Congress	2024

AUTHOR(S)	TITLE	JOURNAL / CONGRESS	YEAR
U Bölükbaş, M Sönmez, D Tüylü , AF Guneri	Incubation Firms by Using PCA 1		2024
D Yilmaz, E Adıgüzel, D Tüylü	Investigating the Effect of Lean Thinking on Employee Motivation in a Business	International Symposium for Production Research (ISPR)	2024
D Yilmaz, D Tüylü , S Yalınız	I Method to Risk Analysis in the		2024
YS Turkan, D Tüylü , E Namli	Purchasing Intention For Recycled Products: A Literature Analysis And In-Depth Review	Financial, Economic, Educational, and Technological Determinants of Environmental Sustainability	2024
YS Turkan, D Tüylü , A Sağıroğlu	Examining Artificial Intelligence and Ethics in Education With Bibliometric Analysis	ation With In Education	
N Kolukırık, Ş Önsel Ekici	Multi-Objective Mixed Integer Linear Programming Model for the Green Vehicle Routing Problem	43rd National Congress on Operations Research and Industrial Engineering	2023
N Kolukırık, ŞN Sargın	Bibliometric Analysis Of Research On Food Supply Chain Optimization	22. International Logistic and Supply Chain Congress (LMSCM) Kongresi	2023

research HIGHLIGHTS



EVENTS





In collaboration with the Industrial Engineering Club, an online ERP workshop was held on April 6, 2023, via Zoom, delivered by Ahmet Savaş Göktürk, Business Solutions Manager at Login Software.

On May 31, 2023, the Industrial Engineering Club organized a technical visit to 2M Kablo.





During the technical visit to ADS
Engineering organized by the Industrial
Engineering Club on November 13, 2023,
students toured the production, planning,
quality departments, and the R&D center,
where they received detailed information
from company executives.



The Breaking Point event, organized by the YÖNTEK Student Club, was held on December 21, 2023, at the Mehmet Akif Ersoy Conference Hall, J Block, Istanbul Gelisim University.

Our 2020 graduate, Mazlum Öztürk, met with Industrial Engineering students on Monday, February 26, 2024, between 1:00 PM and 3:00 PM at the K-Block Auditorium, where he answered students' questions and shared his experiences.





Asst. Prof. Dr. Didem Yılmaz and Asst. Prof. Dr. Binnur Akıf, faculty members of the Department of Industrial Engineering at the Faculty of Engineering and Architecture, Istanbul Gelisim University, held a meeting with Elvan Gıda on April 26, 2024, to discuss potential collaboration opportunities.



The Industrial Engineering Club hosted the 4th Leadership and Entrepreneurship Summit on Friday, May 3, 2024. The event featured leading experts from the industry who delivered inspiring talks on entrepreneurship and leadership, shared their experiences, and provided valuable guidance to students.

The Entrepreneurship Summit, jointly organized by various student clubs of Istanbul Gelisim University, was held on May 15–16, 2024.



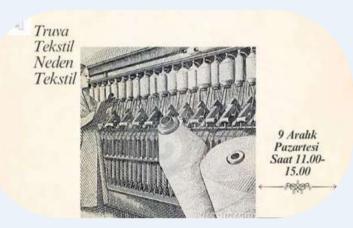


The Excel-ERP Training, organized by the Industrial Engineering Club and open to all students of the Faculty of Engineering and Architecture, was held on May 24, 2024.



On Friday, November 7, 2024, the Industrial Engineering Club organized a training event to raise awareness and enhance knowledge in the field of cybersecurity, one of the most critical topics of today.

Students from the Industrial
Engineering Club visited the Truva
Textile facilities. This valuable
technical trip marked an important
step in enhancing their
professional knowledge and skills.









Özge Özkan Gezergen Human Resources Manager

EĞİTİME KATIL







ONLINE(GOOGLE MEET)



On Tuesday, December 17, the Industrial Engineering Club organized an online training session on Effective LinkedIn Use and CV Preparation, featuring Career Consultant and Human Resources Specialist Özge Özkan Gezergen as the guest speaker.



The Department of Industrial Engineering held an external stakeholder meeting to evaluate its strategic plans and collaboration opportunities for the year 2025. The meeting provided a platform for experts in the field to engage in extensive exchange of ideas.

At the alumni talk event organized by the Industrial Engineering Club, department alumna Buse Yüksel met with students. The event was held online on May 25, 2025, during which Yüksel shared her career journey and industry experiences in an open and sincere manner.



Our senior students have presented their Capstone Projects before a jury within the allotted time.













Some of Our "Capstone Design Project" Posters from 2023 to 2025:



Mühendislik ve Mimarlık Fakültesi Endüstri Mühendisliği Bölümü Bitirme Tasanm Projesi

ALTI SİGMA PROJE METODOLOJİSİNİN (TÖAİK) BİR İMALAT SEKTÖRÜNDE UYGULANMASI

ÖZET

İş dünyasında müşteri istekleri ve gereksinimleri sürekli değişen ve oldukça yüksek olan organizasyonlar için, sadece üretim yapmak ve satış yapmak yeterli değildir. Rekabet avamlaşı elde etinek isteyen Rekabel avantajı elde etmek isteyen organizasyonlar, sürekli gelişen bu yapıya salındırı olmalı ve müyen isteklerini aşanı bir performası sergilemelidir. Bu nedenle organizasyonlar, sürekli iyileştirmeler yapımak ve daha yüksek bedeflere yönelimek işin çabalamaktadır. Altı Sigma yöntemi de bu amaçla kullanılan etkili bir yöntemdir.



YÖNTEM

Bu proje Altı Sigma (TÖAİK) yöntem kullanılarak hayata geçirilmiştir MINITAB programında analizle kullanılarak MINITAB yapılmıştır

Bu veriler doğrulmısında şekiller, tablolar ve analizler elde edilmiştir.



ÖNEMLİ SONUCLAR

- Çevrim süresindeki sapınalar kontrol altına altınıp, süreden kazanç sağlanmıştır. Makinedeki iyileştirmeler sayesinde kaşasite kayaplarının önüne geçilmiş, OEE değerinde artış sağlanmıştır.

Istanbul Gelisim Universitesi Mühendislik Mimarlık Fakültesi Endüstri Mühendisliği Bitirme Projesi



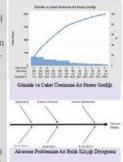




Endüstri Mühendisliği Bölümü

Pareto Analizi ve İstatistiksel Proses Kontrolünde Kullanımının Bir İşletmede Uygulanması

Bu çalışmada, istatistiksel proses kontrol teknikleri ve pareto analizinin yapım aşamaları anlatılmış, kökneden analizi yapılmıştır. Cetele tablosu ve ishikawa diyagramı ile mevcut bilgiler toplanmıştır. Minitab programi vasitasiyla pareto analiz grafiği elde edilmiştir. Çalışmanın son aşamasında bir işletmede uygulama yapılmıştır.



Maksimum fayda sağlayacak çözülmesi gereken hatalar tespit edilmiştir

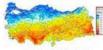
-Personele yeterli eğitim verilmelidir. Tedarikçilere dikkat edilerek kaliteli malzemeyi tedarik etmek gerekmektedir -Makinelerin bakımları zamanında yapılmalıdır.

Hazırlayan: Halil Yasın TURKUT



İstanbul Gelişim Üniversitesi Mühendislik ve Mimarlık Fakültesi

Bitirme Tasarım Projesi SCROCRCLEBILIR INDERI VONCTIVA (EN PRESENTATION VERNELLINGBILIR ENERGI KAYNAKLARINN BULANK COK KRITERLI KARAK VERME VE BWAY VONTEMI VE ENTË NLË KARANIK (KARAK VERME VE BWAY VONTEMI VE ENTË NLË KARANIK (MI KARANIK ME EN PRESENTEL DI GËRE EN MAZINE (MI KARANIK ME EN PRESENTEL DI GËRE EN MAZINE (MI KARANIK ME EN PRESENTEL DI GERMA CATUR (MI KARANIK ME EN PRESENTE ME EN PRESENTE ME EN PRESENTE ME PRESEN







Asst. Prof. Dr. Mert Yıldırım was awarded second place in the 12th TET Project
Bazaar Competition, organized by the Electrical and Electronics Exporters'
Association operating under İMMİB (Istanbul Mineral and Metals Exporters'
Associations). The competition was held under the coordination of the Turkish Exporters Assembly (TİM) and supported by the Republic of Türkiye Ministry of Trade.

The invention titled "Production Method of a Smart Composite Material with High-Performance Properties Containing Nanocellulose and Nickel-Titanium Alloy", with application number 2023/004775, developed by Asst. Prof. Dr. Mert YILDIRIM, has been officially registered as an "examined patent" by the Turkish Patent and Trademark Office (TÜRKPATENT) with a 20-year validity period.

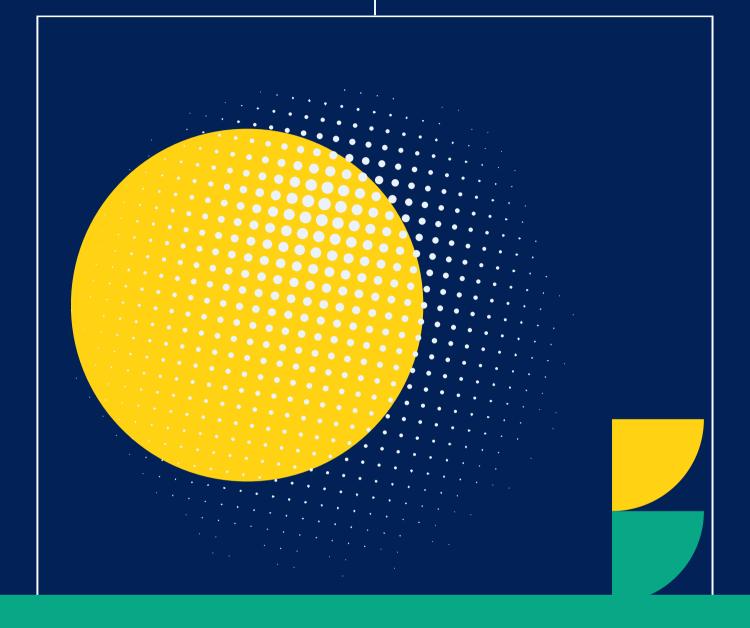


The invention titled "Job Scheduling Device and Algorithm Based on FPGA-Based Hybrid Heuristic Search Algorithms", with application number 2021/022159, developed by Prof. Dr. Tarık ÇAKAR, has been officially registered as a patent.

First Prize to Asst. Prof. Dr. Mert Yıldırım in the National R&D and Innovation Competition!









Mohammed Beşir KEBBE Class of 2021

Istanbul Coordinator, Omega Pharma

Industrial Engineering is one of the broadest fields in engineering, constantly expanding your perspective and offering countless opportunities in a wide range of professional areas.

After graduating from the Department of Electronic Communication Technologies at Marmara University, transferring to the Industrial Engineering program at Istanbul Gelisim University was one of the best decisions I ever made. The department's strong academic staff, high-quality education, and international accreditation by ABET (Accreditation Board for Engineering and Technology) further confirmed that I had made the right choice.

In addition to academic excellence, the university's centrally located campus and its actively used facilities allowed me to fully enjoy university and youth life. Being involved in various student clubs made the experience even more enriching on both a social and personal level.





Ramazan YIKICI Class of 2019 Cargo Operations Specialist, Turkish Airlines

I graduated from the Department of Industrial Engineering in 2019, and it wasn't until the spring of 2023—approximately four years after graduation—that I truly began to appreciate the outcomes of my education and the impact of the assignments and projects I worked on. During my university years, I took many valuable courses from distinguished professors—some of which I wasn't sure at the time how or when I would use. Now I clearly see that my Industrial Engineering education at IGU, along with the internships I completed and the projects I developed, transformed me into a process/operations "doctor" with strong optimization skills—capable of identifying inefficiencies in workflows, upholding high standards of work ethics, generating solutions, and designing detailed new processes.

The activities and group projects I was encouraged to participate in during my university years significantly enhanced my communication skills. These experiences enabled me to build faster, more agile, and more effective communication channels with my superiors, colleagues, and team members in the business environment.

I will always remember my university years as a highly valuable and meaningful four-year journey.

Ender KÖKSOY Class of 2017 Project Sales Engineer, Sempa Pompa Makina A.Ş.



After graduating from Istanbul University Vocational School of Mechanical Technologies, I transferred to the Department of Industrial Engineering at the Faculty of Engineering and Architecture, Istanbul Gelisim University, through the Vertical Transfer Examination (DGS). There, I received a high-quality education under the guidance of professors who are experts in their fields both in knowledge and experience.

Currently, I work as a Project Sales Engineer at a company specializing in the production of pumps for industrial and building technologies. I am also the owner of my own engineering company. I manage the sales of centrifugal pumps—both standard and process-specific models—for schools, dormitories, hospitals, agricultural irrigation systems, dams, TOKİ projects, municipal infrastructures, and heavy industrial applications.

During my university years, I didn't fully appreciate the value of my education. However, once I began working in the industry, I realized that Professor Kenan Özden and our other instructors were, in fact, preparing us for real-world conditions. What truly matters is not just the institution itself, but the one-on-one mentorship and the rich knowledge transfer provided by the educators, along with the meaningful dialogue and guidance they offer.

I would like to sincerely thank all my professors who taught in our department and never withheld their support throughout my education.

Cemil ERGİNYAVUZ Class of 2021 Capacity Planning Engineer, Taha Giyim / LC Waikiki



Industrial Engineering is a multidisciplinary field that develops and applies systems to optimize quality, efficiency, cost, and flexibility in both production and service systems. Since the field offers a broad range of sectors and job descriptions, it is essential to stay up to date continuously.

What I appreciated most about my department was the academic curriculum. At its core, we were taught decision-making—how to use mathematics and analytical methods to make the right decisions for real-world problems and ensure those decisions are implemented and put into action. I had the opportunity to put the theoretical foundation I gained in the Department of Industrial Engineering into practice in my professional life. Currently, I am working as a Capacity Planning Engineer at Taha Giyim / LC Waikiki.

To those who are considering studying at Istanbul Gelisim University in the future, I would like to emphasize how fortunate you are. Our department holds ABET accreditation, a distinction shared by only eight industrial engineering programs in Türkiye. ABET accreditation is a significant asset; many graduate programs in the United States, for example, require applicants to hold a degree from an ABET-accredited institution. Similarly, many prestigious international organizations—including NASA and BOEING—require ABET accreditation as a prerequisite for employment.

I believe that this special and outstanding program significantly enhances the prestige of our faculty. Furthermore, I would like to express my deep appreciation to my professors—Prof. Dr. Tarık ÇAKAR, Prof. Dr. Kenan ÖZDEN, and Asst. Prof. Dr. Didem YILMAZ ÇAPKUR—for the invaluable academic and personal support they provided. Their approach to Industrial Engineering not only equipped us with theoretical and practical knowledge, but also introduced the discipline as a lifestyle and mindset. This guidance will continue to serve as my compass in every professional path I pursue.

I sincerely thank my university and my professors for their contributions and support, and I respectfully express my gratitude.

Özge DEMİR Class of 2022 Business Analyst, Türkiye Finans Katılım Bankası



Since the moment I started working as a Business Analyst at Türkiye Finans Katılım Bankası, I have had the opportunity to be involved in major projects. I see myself as someone who graduated from university but never closed the doors to learning. This mindset is a direct result of the education I received at Istanbul Gelisim University and the invaluable contributions of my professors. Thanks to the knowledge, experience, and time that my professors generously shared with us throughout our engineering education, I am both happy and proud of where I am today. If I were to go back to the university preference period, I would, without hesitation, choose the Department of Industrial Engineering at Istanbul Gelisim University again. The attentiveness of the faculty and the quality of the education were the main reasons behind this choice.

I can confidently say that I received a strong academic foundation. One of the most memorable teachings in my education journey was from my esteemed professor Cansu Noberi, who instilled in me that success cannot be achieved without effort—a lesson I will carry with me for life. Likewise, the unique approach and rich experiences shared by my respected professor Kenan Özden shed light on my path in the field of industrial engineering and continue to guide me.

I sincerely thank all of my professors in the Department of Industrial Engineering for the high-quality education and dedicated support they provided. I can say without a doubt that the success and educational quality of Istanbul Gelisim University's engineering program have shaped the direction of my life.



research HIGHLIGHTS



FACULTY OF ENGINEERING AND ARCHITECTURE

CIVIL ENGINEERING

ACADEMIC STAFF



Assist. Prof. Dr. Ahmad Reshad NOORI (Bölüm Başkanı)



Prof. Dr. Nuri KURUOĞLU



Prof. Dr. Mustafa KARAŞAHİN



Prof. Dr. Abdullah Necmettin GÜNDÜZ



Assoc. Prof. Dr. Suleiman KHATRUSH



Assoc. Prof. Dr. Anıl Niş



Assoc. Prof. Dr. Metin MEHMETOĞLU



Assist. Prof. Dr. Yasin PAŞA



Assist. Prof. Dr. Mustafa NURİ

ACADEMIC STAFF



Assist. Prof. Dr. Sajedah NOROZPOUR



Assist. Prof. Dr. Mesut BARIŞ



Assist. Prof. Dr. Yüsra ZIADA



Assist. Prof. Dr. Aylin Ece KAYABEKİR



Assist. Prof. Dr. Hamit ÖZTÜRK



Assist. Prof. Dr. Mahmut TANER



Assist. Prof. Dr. Esra YALÇIN



Assist. Prof. Dr. Mustafa Yurdabal APAK



Assist. Prof. Dr. İbrahim Rasin DÜZCEER

ACADEMIC STAFF



Res. Assist. Oğuzhan Murat HALAT



Res. Assist. Bilge Sultan DEMİRTAŞ



Res. Assist. Şeyhmus Can TUNÇ



Res. Assist. Kemal ERTUNÇ

Number of Student: 460

First Year of the Department: 2011 Number of Internship Days: 30+30

Accereditation: ABET (2024-2029)

Aim of the Department

aimed to train engineers understand the requirements of the age in the field of Civil Engineering, one of the oldest engineering branches of the world, which emerged with the transition of human beings to settled life. produce can and environmentally human-friendly projects, and are successful in teamwork.



Courses from Curriculum

- -Statics
- -Hydraulics
- -Highway Engineering
- -Reinforced Concrete Design



Research Fields

- -Mechanics
- -Structural
- -Building Materials
- -Geotechnics
- -Hydraulics
- -Transportation
- -Construction Managements



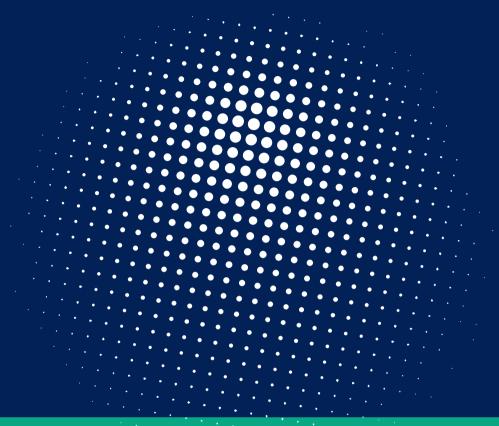
Istanbul Gelisim University

Civil Engineering Department curriculum is approved by ABET (Accreditation Board for Engineering and Technology).











TOTAL

SCIENTIFIC **ACTIVITY**





31 Paper

18 **Book Chapter**

Research Project

Patent





ARTICLE



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DI	EP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
CI	EN	ASLAN T. A., NOORI A. R. , TEMEL B., ÖZER A. P.	Vibration analysis of sandwich beams with non-uniform cross- section made of FGP core and FGM faces resting on Winkler elastic foundation	Mechanics Based Design of Structures and Machines	•	2025
CI	EN	ZWAYEN R. M. R., NOORI A. R., KHATRUSH S. A. S. M., ASLAN T. A.	A New Approach for the Solution of One-Dimensional Consolidation Equation in Saturated Soils Under Various Time-Varying Loads	Arabian Journal for Science and Engineering		2025
CI	EN	DOORI S. G. M., NOORI A. R.	Transient analysis of functionally graded axisymmetric plates via finite element method in the Laplace domain	Mechanics Based Design of Structures and Machines	vol.53, pp.3369- 3395	2025
CI	EN	AYAZ O., NOORI A. R. , SIVRI B., TEMEL B.	Static Analysis of Axisymmetric Thin Cylindrical Shell Using the Complementary Functions Method	Konya Mühendislik Bilimleri Dergisi (Online)	vol.13	2025
CI	EN	METIN M. A., ŞENTÜRK K., NOORI A. R.	Hexacopter Yapısındaki Bir Dron İçin Gövde Ana Parçasının Üç Boyutlu Sonlu Elemanlar Yöntemi İle Serbest Titreşim Analizi	Çukurova Üniversitesi Mühendislik Fakültesi Dergisi	vol.40, pp.415- 428	2025
CI	EN	ALBAYATI M. A. S., NOORI A. R. , KAYABEKIR A. E.	Optimization of Fixed Supported Castellated Steel Beams	International Journal of Engineering Technologies (IJET)	vol.10	2025
CI	EN	NOORI A. R., ALHACHAMI Z. R. K., DEMIRTAŞ B. S., KHATRUSH S. A. S. M.	Tamamlayıcı Fonksiyonlar Yöntemi ile Yanal Yüklü Kazıkların Statik Analizi	Engineering Sciences	vol.14, pp.209- 217	2025

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DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
CEN	DOORI S. G. M., NOORI A. R. , ETEMADI A.	Static Response of Functionally Graded Porous Circular Plates via Finite Element Method	Arabian Journal for Science and Engineering	vol.49, pp.141 67- 14181	2024
CEN	RASOOLI H., NOORI A. R. , TEMEL B.	Static analysis of functionally graded porous beam-column frames by the complementary functions method	Structures	vol.62	2024
CEN	ALBAYATI M. A. S., NOORI A. R.	Üç Farklı Metasezgisel Algoritma Kullanılarak Petek Kirişlerin Yer Değiştirme Optimizasyonu	Çukurova Üniversitesi Mühendislik Fakültesi Dergisi	vol.39, pp.97 9-990	2024
CEN	NOORI M., BILGIN A., DIALLO H., AL ROUSAN M. O., NOORI A. R.	A Study on the Influence of Material Gradient Index on Bending and Stress Responses of FGM Rectangular Plates Using the Finite Element Method	Journal of Sustainable Construction Materials and Technologies	vol.9, pp.23 9-254	2024
CEN	HASHM M., NOORI M., NOORI A. R., DOORI S. G. M.	Undamped Forced Vibration Analysis of Castellated Steel Beam with Circular, Square and Pentagonal Web Openings	Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi	vol.11	2024
CEN	ASLAN T. A., NOORI A. R. , TEMEL B.	An efficient approach for free vibration analysis of functionally graded sandwich beams of variable cross- section	Structures	vol.58	2023

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Eğilme Analizi

Dergisi

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DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
CEN	ULUTAŞ K., YAKUT S., BOZOĞLU PARTO D., SITILBAY B., KARAŞAHIN M. , YARDIM S., ET AL.	How does the isophthalic unsaturated polyester affect the dielectric properties, the glass transition, and the ductility of bitumen?	Road Materials and Pavement Design	vol.25, pp.132 4-1339	2024
CEN	ULUTAŞ K., BOZOĞLU PARTO D., YAKUT Ş., DELİGÖZ H., SITILBAY B., KARAŞAHIN M. , ET AL.	Determination of optimum limestone filler content in asphalt mastic by dielectric spectroscopy	Road Materials and Pavement Design	vol.25, pp.277 2-2787	2024
CEN	KARAŞAHIN M. , YILDIZ A. H., TACIROĞLU M. V.	Investigation of soil stabilization with waste marble powder according to mechanistic- empirical design method	Journal of the Faculty of Engineering and Architecture of Gazi University	vol.39, pp.1621 -1636	2024
CEN	KIRBAŞ UFUK, KARAŞAHİN MUSTAFA	Karayolu - demiryolu hemzemin geçitlerinde maruz kalınan titreşimin insan sağlığını etkileme seviyeleri	Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi	vol.12, pp.2	2023
CEN	KIRBAŞ UFUK, KARAŞAHİN MUSTAFA	Discomfort limits provided by railroad crossings to passenger cars.	International Journal of Pavement Engineering		2023
CEN	AL-SHARHANEE B. A. B., MEHMETOĞLU M., AYGÖRMEZ Y., NIŞ A.	A short-term durability comprehensive study of ceramic waste-doped White Cement composites with hooked-end, basalt and copper-coated fibers	Sustainable Chemistry and Pharmacy	vol.45	2025
CEN	NİŞ A. , ALZEEBAREE R., MOHAMMEDAMEEN A., ÇEVIK A., GÜLŞAN M. E.	Microstructural and Durability Assessment of Various Concrete Types Under Different Chemical Environments	Iranian Journal of Science and Technology - Transactions of Civil Engineering	vol.49, pp.59- 72	2025

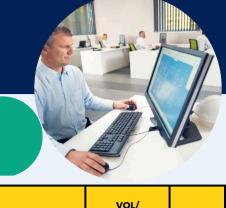
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DEP.	AUTHOR	TITLE	JOURNAL NAME	VOL/ PAGE	YEAR
CEN	KAŞKA M. S., KIRAL I. A., NIŞ A.	Türkiye Kamu Projelerinde Yapay Sinir Ağları ile Süre Tahmini	International Journal of Engineering Technologies IJET	vol.9, pp.10 2-108	2024
CEN	EROL F., MEHMETOĞLU M., AYGÖRMEZ Y., NİŞ A.	Effect of ceramic waste powder content and sodium hydroxide molarity on the residual mechanical strength of alkaliactivated mortars	Materials Chemistry and Physics	vol.30 9	2023
CEN	AL-HADIDY A., ALZEEBAREE R., ABDAL J. A., NİŞ A.	Mechanical performance and statistical analysis of natural and synthetic zeolite-warm mix asphalt as a function of compaction efforts	Journal of Building Engineering	vol.75	2023
CEN	NAZIR K., CANPOLAT O., UYSAL M., NİŞ A., KURANLI Ö. F.	Engineering properties of different fiber-reinforced metakaolin-red mud based geopolymer mortars	Construction and Building Materials	vol.38 5	2023
CEN	HASAR U. C., OZTURK H., KORKMAZ H., TASDEMIR A., BUTE M., NİŞ A. , ET AL.	Detection and quantification of alkali-silica-reaction (ASR) gel in cement-based mortars using microwave spectral and temporal transmission properties	Measurement: Journal of the International Measurement Confederation	vol.21 4	2023
CEN	LAKEW A. M., CANPOLAT O., MEHMETOĞLU M., UYSAL M., NİŞ A ., AYGÖRMEZ Y., ET AL.	Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete	European Journal of Environmental and Civil Engineering	vol.27, pp.42 51- 4278	2023
CEN	NİŞ A., ALTUNDAL M. B.	Durability performance of alkali- activated concretes exposed to sulfuric acid attack	Revista de la Construccion	vol.22, pp.16- 35	2023



DEP.	P. AUTHOR TITLE		JOURNAL NAME	VOL/ PAGE	YEAR
CEN	KURANLI Ö. F., UYSAL M., ABBAS M. T., ÇOŞGUN T., NIŞ A. , AYGÖRMEZ Y., ET AL.	Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete	European Journal of Environmental and Civil Engineering	vol.27, pp.114-139	2023
CEN	Effects of recycled tyre rubber and steel fibre on the impact resistance of slag-based self-compacting alkali-activated concrete		European Journal of Environmental and Civil Engineering	vol.27, pp.519- 537	2023
CEN	AL-SHARHANEE B. A. B., MEHMETOĞLU M ., AYGÖRMEZ Y., NIŞ A.	A short-term durability comprehensive study of ceramic waste-doped White Cement composites with hooked-end, basalt and copper- coated fibers	Sustainable Chemistry and Pharmacy	vol.45	2025
CEN	MEHMETOĞLU M.	Strength Investigation of Slag- Based Geopolymer Composites Incorporating Different Amounts of Colemanite Waste and Silica Fume Under Different Exposure Conditions	Çukurova Üniversitesi Mühendislik Fakültesi Dergisi	38(3), pp.841- 849	2023
CEN	EROL F., MEHMETOĞLU M. , AYGÖRMEZ Y., NİŞ A.	Effect of ceramic waste powder content and sodium hydroxide molarity on the residual mechanical strength of alkali- activated mortars	Materials Chemistry and Physics	vol.309	2023
CEN	LAKEW A. M., CANPOLAT O., MEHMETOĞLU M., UYSAL M., NİŞ A., AYGÖRMEZ Y., ET AL.	Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete	European Journal of Environmental and Civil Engineering	vol.27, pp.15	2023



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	DEP.	DEP. AUTHOR TITLE		IOR TITLE JOURNAL NAME		YEAR
	CEN	KURANLI Ö. F., UYSAL M., ABBAS M. T., ÇOŞGUN T., NIŞ A., AYGÖRMEZ Y., MEHMETOĞLU M ., ET AL.	Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete	European Journal of Environmental and Civil Engineering	vol.27, pp.1	2023
CEN NOORI A. I		ALBAYATI M. A. S., NOORI A. R., KAYABEKİR A. E.	Optimization of Fixed Supported Castellated Steel Beams	International Journal of Engineering Technologies IJET	vol.10	2025
	CEN	KAYABEKİR A. E.	Investigation of optimum tuned mass damper parameter according to stroke capacity	Challenge Journal of Structural Mechanics	9(4)	2023
	CEN SALAAS B., BEKDAŞ G., IBRAHIM Y. E., NİGDELİ S. M., EZZAT M., NAWAR M., KAYABEKİR A. E., ET AL. Design Optimization of a Hybrid Vibration Control System for Buildings		Buildings	13(4)	2023	
	CEN	ÖZTÜRK H. , KILINÇKALE F. M.	The effect of wetting-drying / freezing-thawing cycles on properties of non-air entrained fly ash substituted cement-based composites	Ceramics International	49/7	2023
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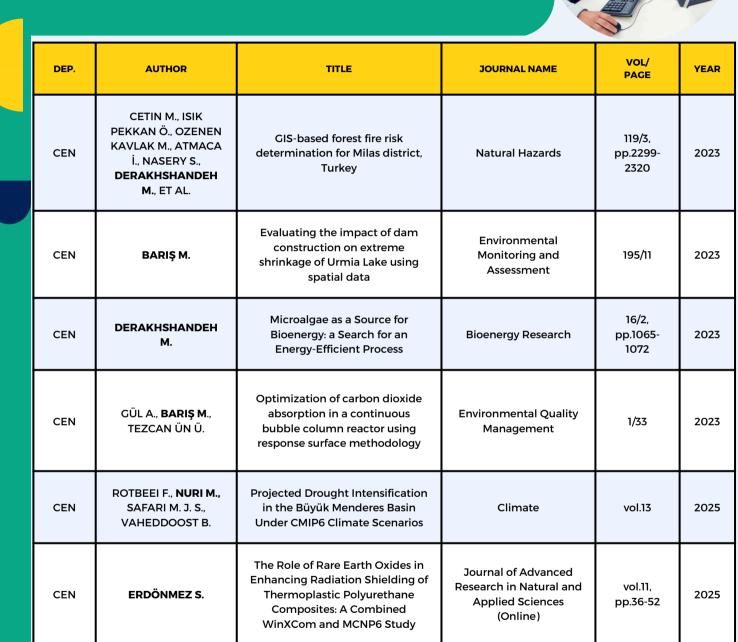
CEN SPOR P., PAŞA Y., DOĞAN E. SPOR P., PAŞA Y., DOĞAN E. SPOR P., PAŞA Y., DOĞAN E. SPOR P., PAŞA Y., DOĞAN E. SPOR P., PAŞA Y. SPOR P., PAĞA Y. SPOR P., PAĞA						
CEN SPOR P., PAŞA Y., DOĞAN E. of HEC-RAS Coupled 1D/2D and 2D Modeling Approaches Through Scenario-Based Analysis CEN ADIL ABDULSAHIB AL-QAZZAZ Z. A. A. A., PAŞA Y. Ceyhan havzası'nın taşkın frekans analizi CEN HACI A., GÜLBAZ S., PAŞA Y. DÜŞÜK Etkili Kentleşme (DEK) Uygulamalarının Kentsel Yağmursuyu Drenaj Sistemi Üzerindeki Etkileri CEN PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. HACI A., GÜLBAZ S. VUMRUTAŞ H. İ., APAK M. Y., DONGMO S. R., ADDIDAHMAN I. O. DONGMO S. R., ADDIDAHMAN I. O. DONGMO S. R., ADDIDAHMAN I. O. ADDIDA	DEP.	AUTHOR	AUTHOR TITLE JOURNAL NAME			YEAR
ADIL ABDULSAHIB AL-QAZZAZ Z. A. A. A., PAŞA Y. Ceyhan havzası'nın taşkın frekans analizi Dergisi Ceyhan havzası'nın taşkın frekans analizi Ceyhan havzası'nın taşkın frekans analizi Dergisi Ceyhan havzası'nın taşkın frekans analizi Dergisi Dergisi Dergisi Dergisi Vol.2, pp.1-21 2024 International Journal of Engineering Technologies IJET PAŞA Y. PAŞA Y. PAŞA Y. Dam failure analysis and flood disaster simulation under various scenarios PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. Dam failure analysis and flood disaster simulation under various scenarios PUMRUTAŞ H. İ., APAK M. Y., DONGMO S. R., ARDIPAHMAN I. O. ARDIPAHMAN I. O. ARDIPAHMAN I. O. ARDIPAHMAN I. O. Dergisi Dergisi Ovol.2, pol.1-2, pp.3-4-3 Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi Dergisi	CEN		of HEC-RAS Coupled 1D/2D and 2D Modeling Approaches	Water (Switzerland)	17/8	2025
CEN PAŞA Y. PEKER İ. B., HACI A., GÜLBAZ S. PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. CEN PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. Dam failure analysis and flood disaster simulation under various scenarios Dam failure analysis and flood disaster simulation under various scenarios PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. Dam failure analysis and flood disaster simulation under various scenarios PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. Dam failure analysis and flood disaster simulation under various scenarios PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. Dam failure analysis and flood disaster simulation under various scenarios PAŞA Y., PEKER İ. B., HACI A., GÜLBAZ S. PAŞA Y., PEKER İ. B.,	CEN	AL-QAZZAZ Z. A. A.	L-QAZZAZ Z. A. A. Ceyhan havzası'nın taşkın frekans analizi			2024
CEN HACI A., GÜLBAZ S. disaster simulation under various scenarios Technology 87/5 2023 YUMRUTAŞ H. İ., APAK M. Y., DONGMO S. R., ABDIRAHMAN I. O. ABDIRAHMAN I. O. ABDIRAHMAN I. O. ARIOLEAN DEREK I. B., disaster simulation under various scenarios Water Science and Technology 87/5 2023 Respectively. Technology 87/5 2023 Adiyaman Üniversitesi Mühendislik Bilimleri Dergisi vol.12, pp.33-43	CEN		Uygulamalarının Kentsel Yağmursuyu Drenaj Sistemi	Engineering		2024
CEN CEN DONGMO S. R., ABDIRAHMAN I. O. Kaplamaların Üretiminde Cevresel Bir Yaklaşım: Odun Talaşının Kullanılabilirliğinin Dergisi Adıyaman Üniversitesi Vol.12, pp.33-43	CEN		disaster simulation under various		87/5	2023
	CEN	CEN DONGMO S. R., ABDIRAHMAN I. O. Kaplamaların Üretiminde Çevresel Bir Yaklaşım: Odun Talaşının Kullanılabilirliğinin		Mühendislik Bilimleri		2025
APAK M. Y., ERGÜN A systematic risk assessment Structure and M., OZEN H., approach for urban roadside Infrastructure YUMRUTAS H. I. infrastructure assets Engineering	CEN	CEN M., OZEN H., approach for urban roadside		Infrastructure		2024



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DEP. AUTHOR T		TITLE	JOURNAL NAME	VOL/ PAGE	YEAR		
	CEN	APAK M. Y., ERGÜN M., ÖZEN H., BÜYÜK M., YUMRUTAS H. I., OZCANAN S., ET AL.	A novel modular shallow mounted bollard system design and finite element performance analysis in ensuring urban roadside safety	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	237/13	2023	
	CEN	CEN IBRAHIM YUMRUTAS H., APAK M. Y. Crashworthiness of the bollard system by experimentally validated virtual test Experimental and numerical comparative crashworthiness analysis of innovative renewable hybrid barrier with conventional roadside barriers		Engineering Failure Analysis	148	2023	
	CEN			International Journal of Crashworthiness	28/3	2023	
	SALLOUM S., NOROZPOUR SIGAROODI S. XAI-IDS: A Transparent and Interpretable Framework for Robust Cybersecurity Using Explainable Artificial Intelligence		SHIFRA	vol.3, pp.69-80	2025		
	CEN NOROZPOUR SIGAROODI S. Mathematical Optimization of Monte Carlo Simulation Parameters for Predicting Stock Prices		Monte Carlo Simulation Parameters for Predicting Stock	International Journal of Engineering Technologies IJET	vol.9, pp.84-88	2024	
I CEN I		On Fractional Integral Operator Over Non-Newtonian Calculus	Turkish World Mathematical Society Journal of Applied and Engineering Mathematics	vol.13, pp.440- 447	2023		



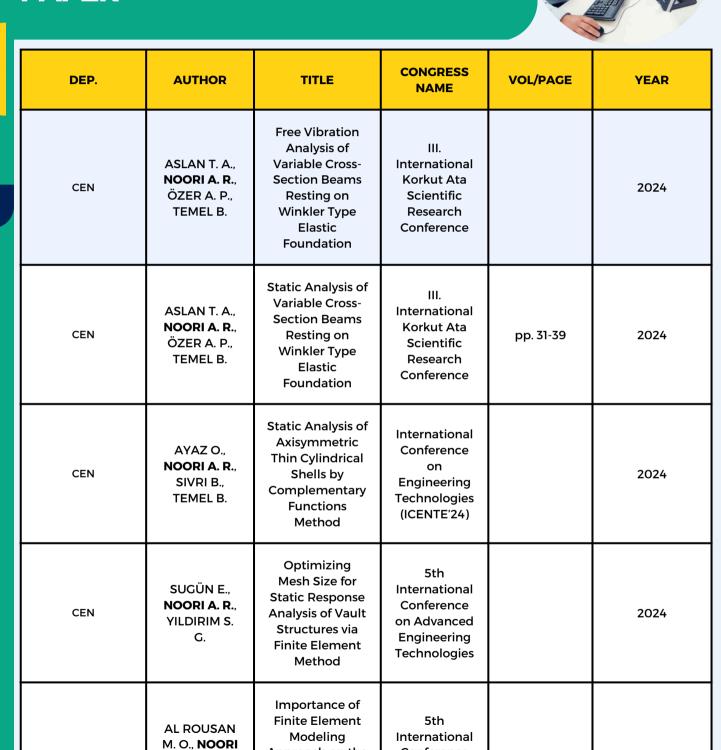
DEP.	AUTHOR TITLE		JOURNAL NAME	VOL/ PAGE	YEAR
CEN	NOROZPOUR SIGAROODI S.	A Mathematical Model to Evaluate the Impact of Yoga Poses on Body	International Journal of Engineering Technologies (IJET)	vol.8, pp.21-24	2023
CEN	YALÇIN E.	Analysis of fall accidents from scaffolding in the construction industry	Gradevinar	76/10	2024
CEN	YALÇIN E., ÇIFTÇIOĞLU G. A., GÜZEL B.	Human reliability analysis methods	Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi	325, art. no. 126747.	2024
CEN	YALÇIN E.	The Global Research Trends on Safety Culture Over the Last Decade: A Bibliometric Analysis	International Journal On Working Conditions	vol.25	2023
CEN	YALCIN E., CEN ÇIFTÇIOĞLU G. A., GUZEL B. H. Human Factors Analysis by Classifying Chemical Accidents into Operations		Sustainability (Switzerland)	15/10	2023
CEN	GÜL A., BARIŞ M. , UN U. T.	I and n-metil-2-nirolidon solvents I		131	2024
CEN	CEN BARIŞ M., TOMBUL M. CEN BARIŞ M., TOMBUL M. A review on models, products and techniques for evapotranspiration measurement, estimation, and validation		Environmental Quality Management	34/1	2024





	DEP.	AUTHOR TITLE JOURNAL NAME		JOURNAL NAME	VOL/ PAGE	YEAR
CEN UYSAL M., CANPOLAT ON the Production		Effect of Waste Filler Materials and Recycled Waste Aggregates on the Production of Geopolymer Composites	Arabian Journal for Science and Engineering	vol.48, pp.4823- 4840	2023	
	CEN	ZIADA M., ERDEM S., ALONSO GONZÁLEZ- LEZCANO R., TAMMAM Y. M., UNKAR İ.	Influence of various fibers on the physico-mechanical properties of a sustainable geopolymer mortar-based on metakaolin and slag	Engineering Science and Technology, an International Journal	46	2023
	CEN	HAMIDI M. N., SHITREH S., CENGIZ A. İ., ÖZÇELIK K., ERYILDIZ-YESIR B., EKMEKCIOĞLU Ö., HALAT O. M., ET AL. ERMIDI M. N., Efficient Roof Selection in Rainwater Harvesting: Hybrid Multi-criteria and Experimental Approach		Water Resources Management	vol.39, pp.1567- 1586	2025
	NOORI A. R., ALHACHAMI Z. R. K., DEMİRTAŞ B. S. , KHATRUSH S. A. S. M. Tamamlayıcı fonksiyonlar yöntemi ile yanal yüklü kazıkların statik analizi		Engineering Sciences	vol.14, pp.209-217	2025	
	CEN ERTUNÇ K., DİLMAÇ H., AVEY A. Investigation of stability behavior of clamped functionally graded cylindrical shells in elastic medium under lateral pressure		UNEC Journal of Engineering and Applied Sciences	vol.5, pp.5- 15	2025	

PAPER



Approach on the

Bending

Response of

Continuous

Beams

A. R.,

HADIDANE A.

C.

Conference

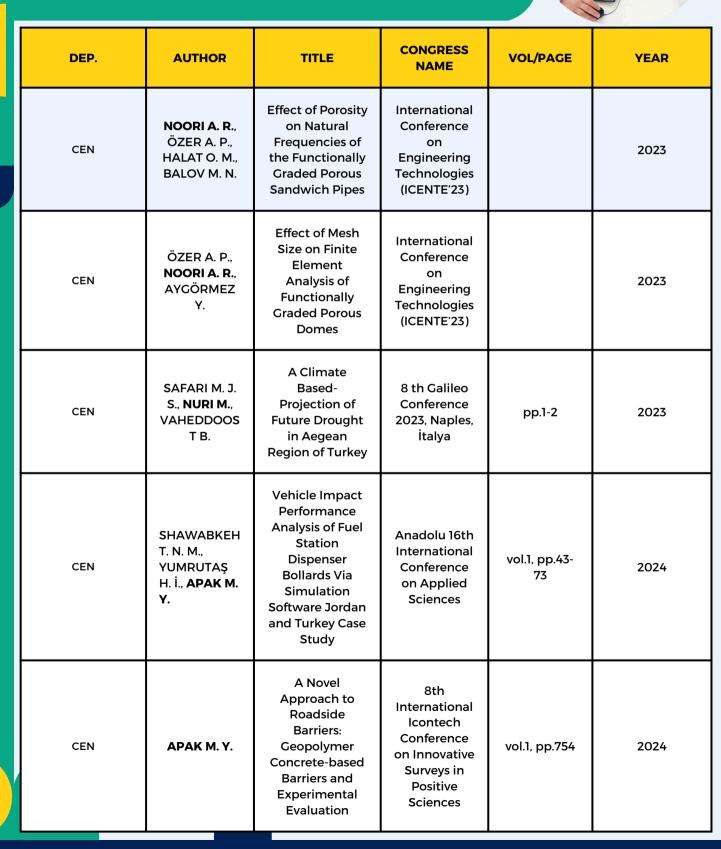
on Advanced

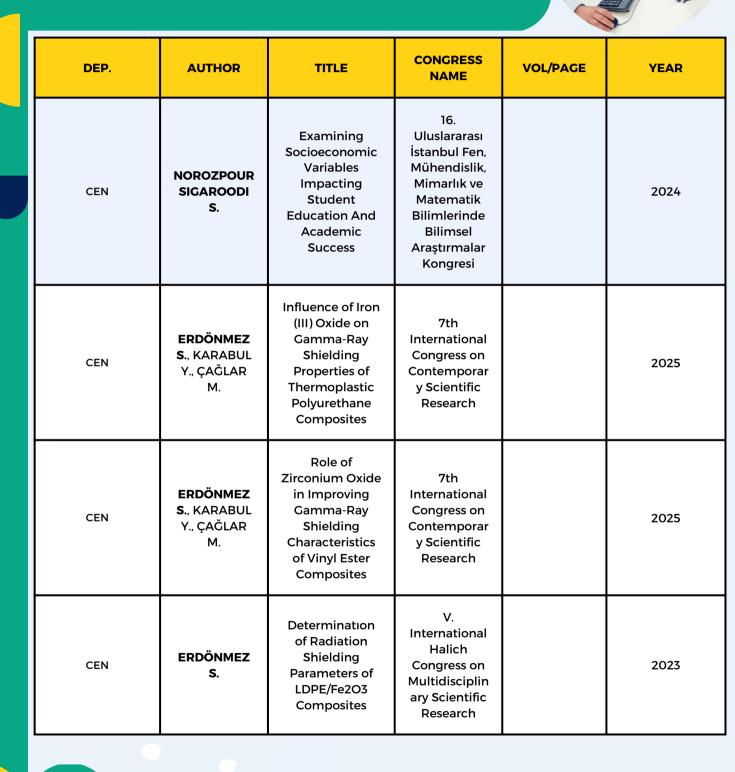
Engineering

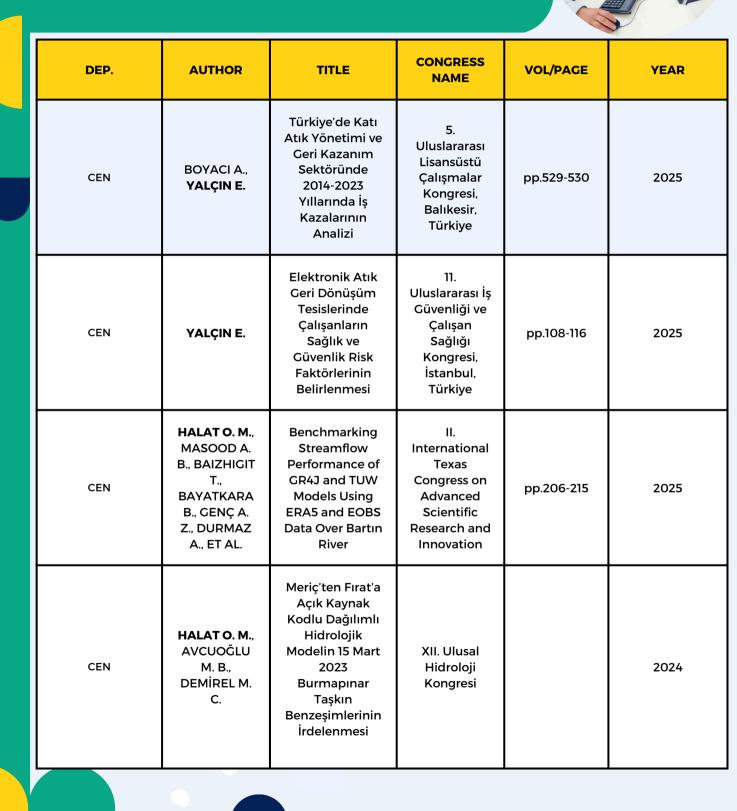
Technologies

2024

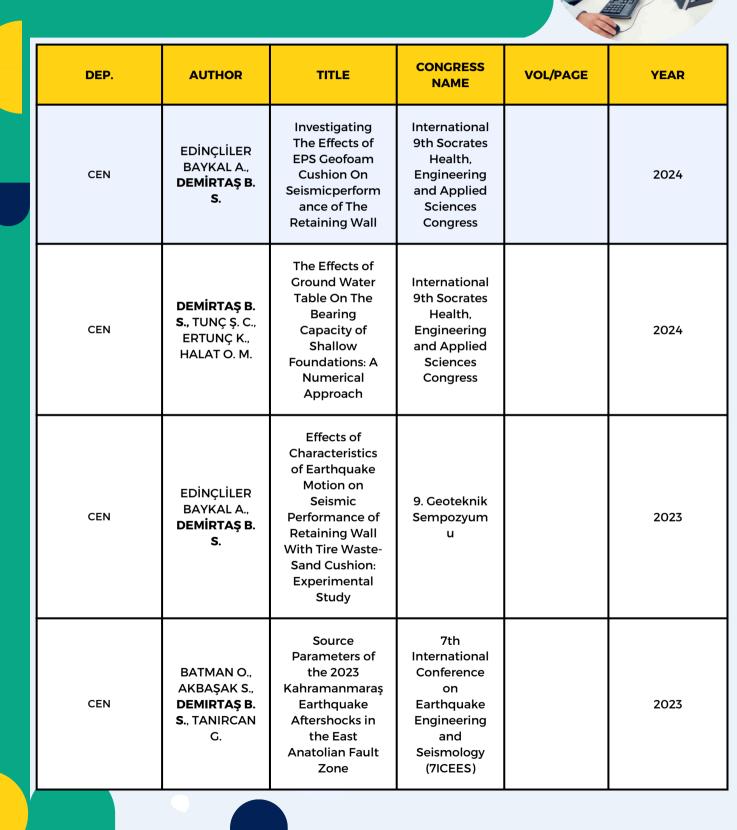
CEN

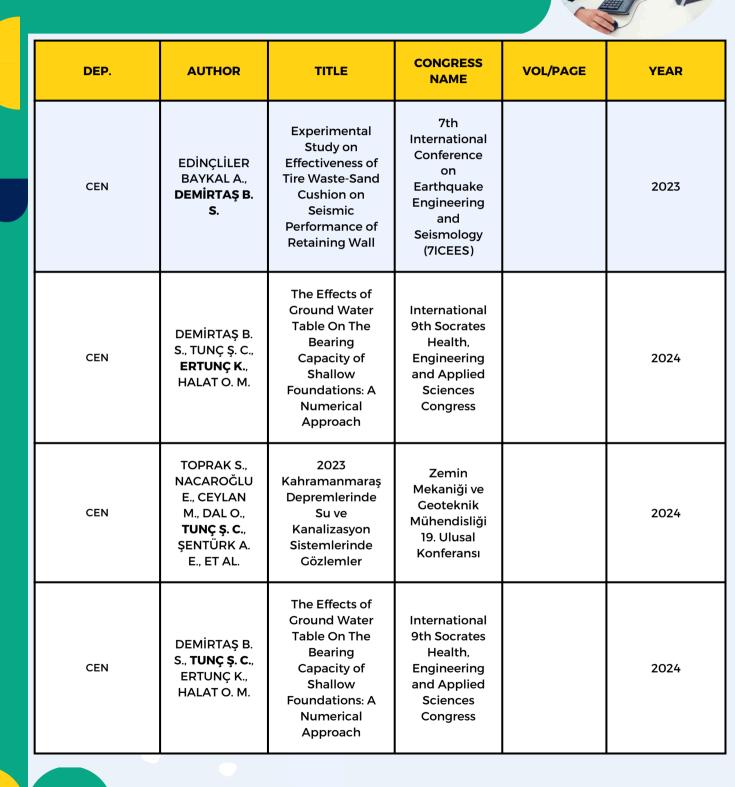


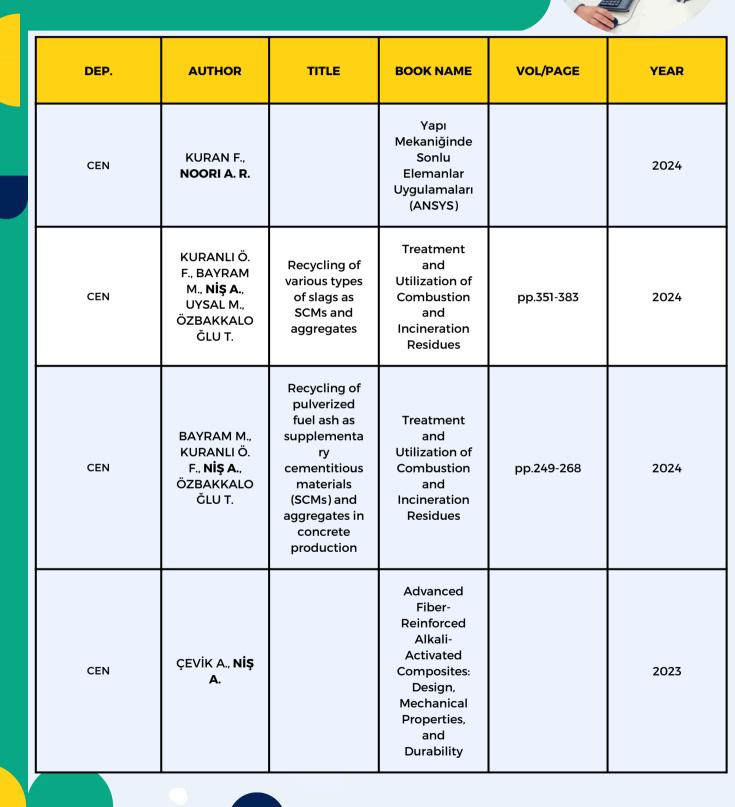












DEP.	AUTHOR	TITLE	BOOK NAME	VOL/PAGE	YEAR
CEN	ÇEVİK A., NİŞ A .	Introduction to fiber- reinforced alkali- activated composites	Advanced Fiber- Reinforced Alkali- Activated Composites: Design, Mechanical Properties, and Durability		2023
CEN	NİGDELİ S. M., BEKDAŞ G., KAYABEKİR A. E.	Modified Jaya Algorithm for Optimum Design of Carbon Fiber- Reinforced	New Advances in Soft Computing in Civil Engineering: AI-Based Optimization and Prediction		2024
CEN	NİGDELİ S. M., BEKDAŞ G., KAYABEKİR A. E.		Metasezgisel Yöntemlerle Betonarme Yapı Elemanlarının Optimizasyonu		2023
CEN	KAYABEKIR A. E., BEKDAŞ G., NIGDELI S. M.	Aktif Ayarli Kütle Sönümleyicil erin Optimizasyon u	Ayarlı Kütle Sönümleyicileri nin Optimum Ayarlanması		2023





RESEARCH PROJECTS



BAP-2025 (Fonksiyonel Derecelenmiş Gözenekli Sandviç Kabuk Problemlerinin Statik ve Dinamik Analizi)

Graduate Thesis Project (Uydu Verileri Kullanılarak Dağılı Hidrolojik Modellerin Taşkın Benzeşim Becerilerinin Geliştirilmesi)

TUBITAK 2209-A (Nano Tungsten Oksit Polimer Kompozitleri ile İyonize Radyasyona Karşı Yeni Nesil Zırhlama Malzemelerinin Geliştirilmesi)

TUBITAK 3501 (Farklı Oranlarda Lif ve Nanomalzeme Katkılı Geopolimer Kompozitlerin Dayanım ve Durabilite Performanslarının Araştırılması)

TUBITAK 1002 (Tekli ve Hibrit Nanomalzeme Kullanımının Geopolimer Kompozitlerin Mekanik ve Durabilite Performansına Etkisi ve Üç Boyutlu Tomografi Yardımıyla Fraktal Çatlak Karakterizasyonu)

TUBITAK Projesi (Köprü Tabliyesi Asfalt Betonu Yüzeylerinin Buzlanmasının Geciktirilmesinde Odun Talaşının Düşük Isı İletkenlik Potansiyelinden Faydalanılması)

Technopark Project (Aydın Dandalaz ve Adana Çakıtsuyu Havzalarında Uydu Verileriyle Açık Kaynak Kodlu Hidrolojik Model Geliştirilmesi ve Bölgesel Yeraltısuyu Kaynaklarının Değerlendirilmesi)

BAP-2024 (Yanal Yüklü Kazıkların Statik ve Dinamik Analizi İçin Etkin Bir Yöntemin Araştırılması)

TUBITAK 1001 (Heterojen Eksenel Dönel Simetrik Kabukların Sıcaklık Etkisinde Dinamik ve Stabilite Analizi)



RESEARCH PROJECTS



TUBITAK 1001 (Winkler, Pasternak ve Kerr tipi elastik-viskoelastik zemine oturan doğru ve eğri eksenli fonksiyonel derecelenmiş çubukların statik, serbest ve zorlanmış titreşim analizi)

TUBITAK 2209A (Fonksiyonel Derecelendirilmiş Gözenekli Basınç Çubuklarının Burkulma Analizi)



PATENT



Yapı Bilgi, Yapı Sağlığı İzleme ve Afet Yönetim Sistemi (Registered)

REWARDS AND SUCCESSES



Assoc. Prof. Dr. Anıl NİŞ served as an editor of the book titled Advanced Fiber-Reinforced Alkali-Activated Composites, published in 2023 by Elsevier, one of the world's leading publishers in the field. The book features contributions from many renowned academics from various countries. Additionally, Assoc. Prof. Dr. Anıl NİŞ is one of the authors of the book's opening chapter, titled Introduction to Fiber-Reinforced Alkali-Activated Composites.

At the Annual Academic Performance Awards Ceremony, traditionally organized by Istanbul Gelişim University, our Department Chair, Asst. Prof. Dr. Ahmad Reshad NOORI, was honored with an award for his outstanding academic achievements. Additionally, our faculty members—Prof. Dr. Nuri KURUOĞLU, Prof. Dr. Mustafa KARAŞAHİN, Assoc. Prof. Dr. Anıl NİŞ, Assoc. Prof. Dr. Metin MEHMETOĞLU, and Asst. Prof. Dr. Aylin Ece KAYABEKİR—were also among the recipients of this prestigious recognition.



research HIGHLIGHTS



EVENTS



ISFALT Site Visit

Istanbul Gelisim University Civil Engineering Club organized a technical trip to ISFALT Asphalt Plant on December 19. Students received on-site information about the asphalt production process, quality control and environmentally friendly methods. The visit helped reinforce theoretical knowledge with practice. Participants were satisfied with the trip and asked for more similar events.



KULUP Total

Club Introduction Days

Within the scope of student club promotion days, our Civil Engineers Club came together with students.

Application within the Course

Within the scope of INS210 - Surveying Knowledge course, applied surveying training was held on campus with students. Students had the opportunity to reinforce their theoretical knowledge in the field with modern equipment. This practice contributed to the development of their professional skills.



Road Construction Seminar



In the seminar organized for Kocaeli Metropolitan Municipality personnel on February 13-14, road construction and repair techniques were discussed. Theoretical and practical information was shared in the training given by Prof. Dr. Mustafa Karaşahin. Prof. Dr. Karaşahin expressed his pleasure to meet with his former students as a colleague.

Geotechnical Engineering Seminar

On May 16, 2025, at the "Geotechnical Engineering: Challenges and Opportunities" seminar, Önder AKÇAKAL shared his industry experiences with students. The event covered topics such as ground investigation, foundation design and ground improvement. Students had the opportunity to share their professional questions directly with the expert. A plaque of appreciation was presented to Önder AKÇAKAL for his contribution.



İstanbul Beton Site Visit

With the field trip organized to Istanbul Beton Hadımköy Concrete Production facilities, our students had the chance to closely follow the processes of concrete production and laboratory studies. We would like to thank Istanbul Beton officials who hosted our students and informed them with their presentations and our department faculty members who participated in the trip with our club.



Kuzeyboru Pasta Bridge Competition

The Pasta Bridge Competition organized by our Civil Engineering Club in cooperation with Kuzeyboru Company was held with the participation of 41 different groups from different universities. The groups tested the bridges they built with weights in front of the jury in the competition, which witnessed entertaining images.



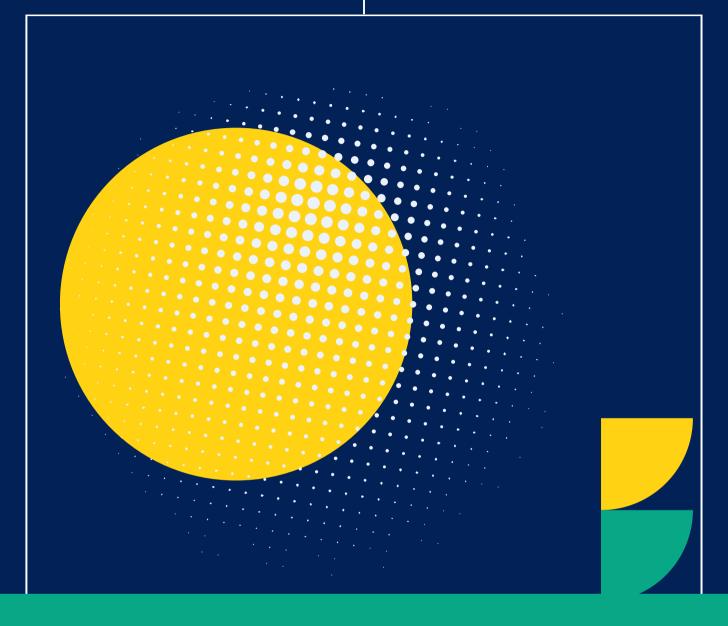
International Visit to our Department

Dr. Mahmood ALHAFADHI, faculty member of Dunaújváros University, visited Istanbul Gelisim Hungary, University Civil Engineering Department within the scope of Erasmus+ Lecturer Mobility Program. During his visit, Dr. Mahmood ALHAFADHI gave a seminar on welding technologies and finite element method and contributed to international academic interaction by sharing knowledge and experiences with students.





research HIGHLIGHTS



OUR GRADUATES

Selin Ece ALTUN Architect & Civil Engineer Graduated at 2021



I graduated from Architecture in 2020 and Civil Engineering in 2021 and completed the double major program. I am currently continuing my master's at Istanbul Gelişim University. After my undergraduate degree, I started my career as a Civil Engineer - Site Chief. Later, I worked as an architect in an interior design firm. Now, I have established my own project office. I provide services by preparing architectural and static projects, mainly residential-type projects. In my professional process, the effort of the successful staff of Istanbul Gelişim University is undeniable. I continue my working life in the light of many skills such as working discipline, observation and questioning, analytical thinking, solution generation, and decision-making that I gained during my undergraduate education. I would like to thank my dear professors and school for giving me a lot. I am proud to be a graduate of Istanbul Gelişim University.

Asena Pınar ÖZER Civil Engineer Graduated at 2022



I graduated from Istanbul Gelişim University, Department of Civil Engineering, where I studied for 5 years with English preparatory education, in 2022. I am doing a master's degree with a thesis in the Department of Civil Engineering, Department of Mechanics at Yıldız Technical University, and I am studying structural mechanics, rigid body mechanics, and numerical methods.

The education I received while studying at Istanbul Gelişim University made me love the profession I chose. By broadening my horizons academically, I became an engineer who knows what to do at the end of the 5 years I spent. During my student life, I benefited a lot from the club opportunities offered by the school. I assumed the presidency of the music club and found an environment where I could take responsibility without interrupting my lessons and develop myself socially and culturally. I think that Istanbul Gelisim University brought me everything that I wanted to add to myself, both academically and socially, when I came to university.

Davut DURMAZ Civil Engineer Graduated at 2020



I graduated from Istanbul Gelisim University Civil Engineering Department in 2020. Siyer Yapı İnşaat Mühendislik İTH. IHR. SINGING. TRADE. LTD.ŞTİ – I am the Chairman of the Board of Directors. As Siyer Yapı, I provide Static Project Consultancy services, real estate appraisal expertise, and project implementation services in Van.

Istanbul Gelisim University is technically a more innovative and positive university than the university I studied before. It is a university where we can reach our professors at the university whenever we want, use the laboratory, and technical trips.

Since each of our professors at the university is experienced in their own fields and has worked in the private sector, the education is not limited to practice as they transfer their private sector experiences while giving training. It is a very good phenomenon that our university finds a job after graduation and that its students follow in their professional life. In addition, many of our friends who study engineering at our university are preferred by the children of Turkey's leading contractors, so their circle of friends can provide assistance in business life and technically.

Berilsu ÖNDERIŞIK Head of Civil Engineering Student Club



As a 3rd-year Civil Engineering student at Istanbul Gelisim University and the President of the Civil Engineering Club, it is a great pleasure for me to address you all. The construction industry is constantly evolving in response to advancing technologies and the changing global landscape. This transformation demands engineers who are not only knowledgeable but also experienced and visionary. With this awareness, we strive to adopt an engineering mindset that prioritizes both professional and social development—extending far beyond the boundaries of classroom learning. Our goal as the Civil Engineering Club is to deepen our understanding of the profession, reinforce theoretical knowledge through field experience, and foster teamwork and solution-oriented thinking by strengthening our social bonds. In this direction, we organize:

- Technical trips (construction site visits, factory tours, large-scale structural projects),
- Seminars and panel discussions with leading experts,
- Workshops, competitions, and social events
- all designed to support both the technical and personal growth of our members.

Our club is open to all students who are enthusiastic, collaborative, curious, and driven by innovation. By joining us, you won't just be part of a student club; you'll become part of a network of solidarity and a community that encourages growth and vision. If you want to explore civil engineering not only through textbooks but also through real-world experience—if you want to learn, create, and grow together—then we warmly welcome you to join us.

Let's build the future together!



research HIGHLIGHTS



FACULTY OF ENGINEERING AND ARCHITECTURE

MECHATRONICS ENGINEERING

ACADEMIC STAFF



Prof. Dr. Hamdi Alper ÖZYİĞİT Ph.D. Celal Bayar University



Assoc. Prof. Dr. Bülent GÜZEL Ph.D. University of British Columbia



Asst. Prof. Dr. Cansu NOBERİ Ph.D. Yıldız Technical Universit



Asst. Prof. Dr. Kenan ŞENTÜRK Ph.D. Yeditepe University



Asst. Prof. Dr. Safar POURABBAS Ph.D. Nanyang Technological University



Asst. Prof. Dr. Haydar İzzettin KEPEKÇİ Ph.D. İstanbul University



Asst. Prof. Dr. Gökçe KARACAYILMAZ Hacettepe University



Asst. Prof. Dr. Sanem YAVUZ Ph.D. Yıldız Technical University



Res. Asst. Tunay ACIMAN



Res. Asst. Ufuk ATEŞOĞLU



Res. Asst. Muhammed Lütfi TIRABZON

MECHATRONICS ENGINEERING

Number of Students: 194 Year of Opening: 2011

Number of Internship Days: 30+30=60 Workday

Status of Accreditation: ABET

Purpose of Department

Mechatronics Engineering is a branch of engineering, which has been frequently referred to in the recent years and has become more required with the rising popularity of using smart systems and robots in the industry. Rapid development mechanics. of electronics. computer hardware and software industries and transition to smart systems in the industry enhanced with this development created the field of mechatronics engineering, which is a combination of different fields of engineering. As a combination of mechanical, electricalelectronics and computer engineering, the mechatronics engineering studies on the design and production of functional smart systems and products to be beneficial to humanity and industry.



Courses from Curriculum:

- Introduction to Robot Technology
- Signals and Systems
- System Dynamics
- Statics and Strength of Materials
- Microprocessors

RESEARCH AREAS OF MECHATRONICS ENGINEERING **DEPARTMENT**

ABET

Istanbul Gelisim University

Mechatronics Engineering Department Curriculum Accredited by ABET (Accreditation Board for Engineering and Technology).

- -Robot Technologies
- -Automotive Technologies
- -Mechanical Vibrations
- -Sensor and Actuator Design
- -Image Processing
- -Nanotechnology
- -Artificial Neural Networks
- -Fundamentals of Machine Learning
- -Renewable Energy Sources
- -Industrial Automation









SCIENTIFIC RESEARCHES



HIGHLIGHTS

TOTAL

SCIENTIFIC PUBLICATION





Paper

Book Chapter

Project





Articles

Author(s)	Title	Journal	Year
Erbayrak, E., Colak, M., & Noberi, C.	Low-velocity impact analysis of metal-composite joints with grain-refined A356 and reinforced epoxy adhesive using six node pentahedron cohesive elements.	The Journal of Adhesion, 1–25	2025
Kepekci H., Komatina M.	CFD Investigation on Heat Transfer Performance of Different Pipe Geometries at Various Reynolds Numbers.	Thermal Science. Advance online publication.	2025
Kepekci H.	A study on the performance of the various refrigerants on the two- stage vapor compression refrigeration system with a flash chamber for ships.	International Journal of Low- Carbon Technologies,	2025
Kepekci H., Agca M., Komatina M.	Thermal and Mechanical Analysis of Wheel Rim in Formula 1 Vehicles.	Thermal Science,	2025
Kepekci H., Ezgi C.	Thermodynamic Analysis of a Marine Diesel Engine Waste Heat- Assisted Cogeneration Power Plant Modified with Regeneration Onboard a Ship.	Journal of Marine Science and Engineering,	2025
ATEŞOĞLU, U., Baydar, S. Y., & Özyalvaç O. N.	An Investigation on the Evaluation and Improvement of Existing Features of Foot Exercise Apparatus Designed for Use in Evertor and Invertor Muscle Dysfunction.	Düzce Üniversitesi Bilim ve Teknoloji Dergisi	2025
Metin, M. A., Şentürk, K., & Noorı, A. R.	Hexacopter Yapısındaki Bir Dron İçin Gövde Ana Parçasının Üç Boyutlu Sonlu Elemanlar Yöntemi İle Serbest Titreşim Analizi.	Çukurova Üniversitesi Mühendislik Fakültesi Dergisi,	2025
Senturk, K., Gormus, A.F., Gonen, S. et al	Artificial intelligence-enhanced intrusion detection systems for drone security: a real-time evaluation of algorithmic efficacy in mitigating wireless vulnerabilities.	Cluster Comput	2025
Uçak, U., & Şentürk, K.	INVESTIGATION OF OCCUPATIONAL HEALTH AND SAFETY PERCEPTIONS OF PRIVATE SECTOR EMPLOYEES AND AWARENESS OF PARTICULARLY RADIATION EXPOSURE ISSUE.	Mühendislik Bilimleri Ve Tasarım Dergisi	2025
K. Senturk, L. Arda	Effects of Fe Concentration on the Structural, Optical and Biological Properties of ZnMgO Nanoparticles. Cryst. Res. Technol.	Crystal Research Technology	2025
Özdamar, O., Yetmez, M., Türen, Y., Kocaman, E., & Özyiğit, H. A.	Gd ve Y ilave Edilmiş AZ31 Magnezyum alaşımına Ekstrüzyon ve Çok Yönlü Dövme Prosesinin Etkisi.	JOURNAL OF POLYTECHNIC- POLITEKNIK DERGISI	2024
Anjrini, N., Karabulut, H., ULAĞ, S., Ege, H., Noberi, C., DOĞAN, C., ŞAHİN, A.	3D-printed polylactic acid (PLA)/polymethyl silsesquioxane (PMSQ)-based scaffolds coated with vitamin E microparticles for the application of wound healing.	Emergent Materials	2024
Metin, M. A., & Şentürk, K.	Hexacopter Yapısındaki Drone için Karbon Fiber Malzeme Kullanılarak Tasarlanan Ana Gövde Parçalarının Statik Analizi.	Karadeniz Fen Bilimleri Dergisi	2024
Pourabbas, S.	Developing A Multi-Material 3D Printing Platform: I- Developing A Clay 3D Printing System.	International Journal of Advanced Natural Sciences and Engineering Researches	2024
Kepekci H., Ezgi C.	Thermodynamic Analysis of a Marine Diesel Engine Waste Heat-Assisted Cogeneration Power Plant Modified with Regeneration Onboard a Ship.	Journal of Marine Science and Engineering	2024

Articles

Author(s)	Title	Journal	Year
Ezgi C., Kepekci H.	Thermodynamic Analysis of Marine Diesel Engine Exhaust Heat-Driven Organic and Inorganic Rankine Cycle Onboard Ships.	Applied Sciences	2024
Kepekci H., Ezgi C.	Design and Thermodynamic Analysis of Waste Heat-Driven Liquid Metal-Water Binary Vapor Power Plant Onboard Ship	Journal of Marine Science and Engineering	2024
Kepekci H., Molani N.	Examination of Thermal Dispersion and Airflow within a Refrigerator.	Cukurova University Journal of the Faculty of Engineering	2024
Kepekci H., Agca M.	Numerical Investigation of the Effects of Air Flow Geometry and Reynolds Number in Cooling Systems of Lithium-Ion Batteries.	Engineering and Technology Journal	2024
Kepekci H., Agca M.	Numerical Investigation of the Thermal and Acoustic Effect of Material Variations on the Exhaust Muffler.	International Journal of Automotive Engineering and Technologies	2024
Karacayılmaz, G., & ARTUNER, H.,	A novel approach detection for IIoT attacks via artificial intelligence.	Cluster Computing	2024
Yavuz, S., Onar, S., & Ersoy, B. A.	More on the Vague Complex Subhypergroups	Fundamentals of Contemporary Mathematical Sciences	2024
Yavuz, S., Ersoy, B. A., Tekir, Ü., & Yetkin Çelikel, E.	On S-2-Prime Ideals of Commutative Rings.	Mathematics	2024
Korkmaz, F. C., & Güzel, B.	Insights from sloshing experiments in a rectangular hydrophobic tank.	Experimental Thermal and Fluid Science	2023
KORKMAZ, F. C., & Güzel, B.,	On the effects of the number of baffles in sloshing dynamics.	Ships and Offshore Structures	2023
Al-Beity, A. M. A., KORKMAZ, F. C., & GÜZEL, B.,	Wave Impact Loads on Vertical Circular Cylinder and the Effect of Hydrophobic Surface.	El-Cezeri Journal of Science and Engineering	2023
Senturk, K., Sen, T., Coruhlu, T., Shahzad, A., & Aslan, N.	Obtaining plasma parameters by Langmuir probes and optical emission spectroscopy in low-pressure DC plasma.	Radiation Effects and Defects in Solids	2023
Senturk, K., Yalcin, B., Yalcin, I.E. et al.	The role of defects in the structural and photocatalytic properties of Mg/B co-doped ZnO nanoparticles.	J Mater Sci: Mater Electron	2023
Yalcin, B., Arda, L., Yalcin, I.E. et al.	Exploration of the improving effect of Cd-doping on structural, photocatalytic, and biological properties of ZnO nanoparticles.	J Nanopart	2023
Kepekci H.	Investigation of the effect of the use of top deflectors on aerodynamic performance in vehicles with CFD analysis.	International Journal of Automotive Engineering and Technologies	2023
Kepekci H., Aslan E.	Investigation of the Effect of Hot Fluid on Deformation in TShaped Pipes by FSI Method Using Different Material.	Sakarya University Journal of Science	2023
Kepekci H., Agca M.	Numerical Investigation of the Thermal Effect of Material Variations on the Brake Disc.	International Journal of Pioneering Technology and Engineering	2023
YAVUZ, S., ONAR, S., ERSOY, B. A., DAVVAZ, B., & HILA, K.	Intuitionistic Complex Fuzzy H v-subgroups.	Journal of Multiple- Valued Logic & Soft Computing	2023
Yavuz, S., Onar, S., & Ersoy, B. A.	On Bipolar Complex Fuzzy Hv-subgroups.	Journal of Hyperstructures	2023

Conference Papers

Author(s)	Title	Congress	Year
Kepekci H.	CFD Analysis of the Influence of Twisted Tape Width and Thickness on Flow Characteristics in Pipe Flow.	1st National Conference on Energy Transition and Sustainability	2025
Yıldırım, H., Görmüş, A. F., Metin, M. A., Şentürk, K., Noberi, C., & Gönen, S.,	Dronlardaki Yük Taşıma Mekanizmasına Replay Attack Saldırısı ve Şifreleme .	11. Savunma Teknolojileri Kongresi SAVTEK2024	2024
A. F. Görmüş et al.,	Cybersecurity in Piezoelectric Biosensor for Sensing Application	2024 Innovations in Intelligent Systems and Applications Conference (ASYU)	2024
Kepekci H.	The Role of Biomaterials in Sustainable Energy Storage Systems.	International Conference on Advanced Functional Materials & Biomaterials and Biodevices	2024
Görmüş, A. F., Markūnienė, I., Şentürk, K., Gönen, S., Barışkan, M. A., Karacayılmaz, G., Yılmaz, E. N.	Cybersecurity in Piezoelectric Biosensor for Sensing Application .	2024 Innovations in Intelligent Systems and Applications Conference, ASYU 2024	2024
Acıman T, Erbayrak S., Halat O.M.	Forecasting Analysis of Wind Speed Using Polynomial Regression and Artificial Neural Network.	International 9th Socrates Health, Engineering and Applied Sciences Congress.	2024
TÜRE, K., & ÖZYİĞİT, H. A.,	ARTIFICIAL NEURAL NETWORKS APPLICATION FOR POSITION CONTROL OF ROBOT ARM WITH PNEUMATIC ARTIFICIAL MUSCLE .	4. INTERNATIONAL MEDITERRANEAN CONGRESS	2023
Kalfa M., Kepekci H., Aslan E.	Investigation of the Effect of Conical Ring Pipes on Thermal Performance in Heat Exchanger by CFD Method.	24th Congress on Thermal Science and Technology with International Participation	2023
Gönen, S., Karacayilmaz, G., Artuner, H., Barışkan, M. A., & Yılmaz, E. N.,	Cyber Attack Detection with Encrypted Network Connection Analysis .	12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023	2023
Yavuz S., Ersoy B.A.,	Vague Complex Subhypergroups,	Algebraic Hyperstructures and Its Applications Conference (AHA 2023)	2023
Yavuz S., Ersoy B.A.,	Weakly S-2- Prime Ideals, 10th International Congress on Fundamental and Applied Sciences (ICFAS 2023)	10th International Congress on Fundamental and Applied Sciences (ICFAS 2023)	2023

Book Chapters

Author(s)	Book	Year
Kepekci H., Guven H.R.	From Theory to Practice: Advanced Materials and Manufacturing Methods, Book Chapter Title: (Aeroacoustic Analysis of Wind Turbine Blades)	2024
Ezgi C., Kepekci H., Sogut M.Z.	Energy Rationality and Management for Decarbonization, Book Chapter Title: (Investigation of Organic Rankine Cycle for Power Generation from Marine Diesel Generator Waste Heat)	2024
Kepekci H., Agca M.	Recent Research on Mechanical Engineering, Book Chapter Title: (CFD Investigation of the Thermal Effect of Material Variation on the Exhaust Manifold)	2024
Kepekci H.,	Engineering Sciences: Issues, Opportunities and Research, Book Chapter Title: (Thermal Energy Storage Systems)	2023

Projects

Name	Duty	Project Name	Supporting Organisation	Status
H. Alper ÖZYİĞİT	Researcher	IGUROB Artificial Intelligence-Supported Humanoid Robot Design	İGÜ - BAP	2024- continues
Kenan ŞENTÜRK	Executive	Advanced Image Processing Performance Optimisation in PLC Systems	İGÜ - BAP	2024- continues
Kenan ŞENTÜRK	Researcher	Artificial Intelligence- Supported Analysis of PLC Device Cyber Security Vulnerabilities and Attack Detection with Expert System Assistance	İGÜ - BAP	2024- continues
Safar POURABBAS	Researcher	IGUROB Artificial Intelligence-Supported Humanoid Robot Design	İGÜ - BAP	2024- continues
Sanem YAVUZ	Researcher	Generalisation of Absorbed Ideals Using Jacobson Radicals	YTÜ-GAP	2024- continues
Sanem YAVUZ	Researcher	Application of Neutrosophic Sets to Algebraic Structures	YTÜ-GAP	2024- continues
Tunay ACIMAN	Researcher	IGUROB Artificial Intelligence-Supported Humanoid Robot Design	İGÜ - BAP	2024- continues
Ufuk ATEŞOĞLU	Researcher	IGUROB Artificial Intelligence-Supported Humanoid Robot Design	İGÜ - BAP	2024- continues

Projects

Name	Duty	Project Name	Supporting Organisation	Status
M. Lütfi TIRABZON	Araştırmacı	IGUROB Yapay Zeka Destekli İnsansı Robot Tasarımı	İGÜ - BAP	2024- continues
Tunay ACIMAN	Araştırmacı	PLC Cihazlarının Siber Güvenlik Açıklıklarının Yapay Zeka Destekli Analizi ve Uzman Sistem Yardımıyla Saldırı Tespiti	İGÜ - BAP	2024- continues
Tunay ACIMAN	Araştırmacı	PLC Sistemlerinde Gelişmiş Görüntü İşleme Performansı Optimizasyonu	İGÜ - BAP	2024- continues
Kenan ŞENTÜRK	Araştırmacı	Plazma Teknolojisi ile Çevre Dostu Sıvı Azot Gübresi Üretimi	TÜBİTAK - BİGG	2023- continues
Safar POURABBAS	Yürütücü	Birkaç Malzemeli 3B Yazıcı Platformu Tasarımı ve Geliştirilmesi	İGÜ-BAP	2023- continues
Kenan ŞENTÜRK	Danışman	Su Tasarrufu ve Bilinçlendirme İçin Akıllı Duş Sistemi Projesi	ТÜВİТАК-2209А	Finished (2025)
Kenan ŞENTÜRK	Araştırmacı	Manyetik Varis Çorabı (2023-2025)	TÜSEB	Finished (2025)
Kenan ŞENTÜRK	Danışman	Görme Engelli Bireyler için Yapay Zeka ve Siber Güvenlik Özelliklerine Sahip Akıllı Gözlük	TÜBİTAK-2209A	Finished (2024)
Cansu NOBERİ	Yürütücü	Otonom Araçlardaki Radyo Frekans (RF) Saldırısına Karşı Araç Anahtar Güvenliği	İGÜ - BAP	Finished (2024)
Sanem YAVUZ	Araştırmacı	Sezgisel Bulanık Kümelerin Bazı Cebirsel Yapılara Uygulanması,	YTÜ-GAP	Finished (2024)
Cansu NOBERİ	Yürütücü	Efes Hellenistik Dönemi Savunma Yapılarına Analitik Yaklaşım	İGÜ - BAP	Finished (2023)



research HIGHLIGHTS



EVENTS



09.04.2025 dated "Basic Information About Patent" seminar was held within the scope of 'Product Development Methodology' course conducted by Asst. Prof. Cansu NOBERİ with the presentation of Dr. Onur Ömer SÖĞÜT.



On 19.03.2025, Mr. Ahmet Şenol Armağan, Head of Library and Documentation Department of Istanbul Gelisim University, met with the students in Asst. Prof. Cansu Noberi's Product Development Methodology course with an educational and complementary seminar.

On 05.12.2024, Mr. Ali İlker Selviboy, FOLYO PRODUC'TION MANAGER within ASSAN ALÜMİNYUM company, met with students in Asst. Prof. Cansu Noberi's Production Methods course.



On 27.05.2025, Mr. Ali İlker Selviboy, FOLYO PRODUCTION MANAGER within ASSAN ALÜMİNYUM company, met with students in Asst. Prof. Cansu Noberi's Production Methods course.



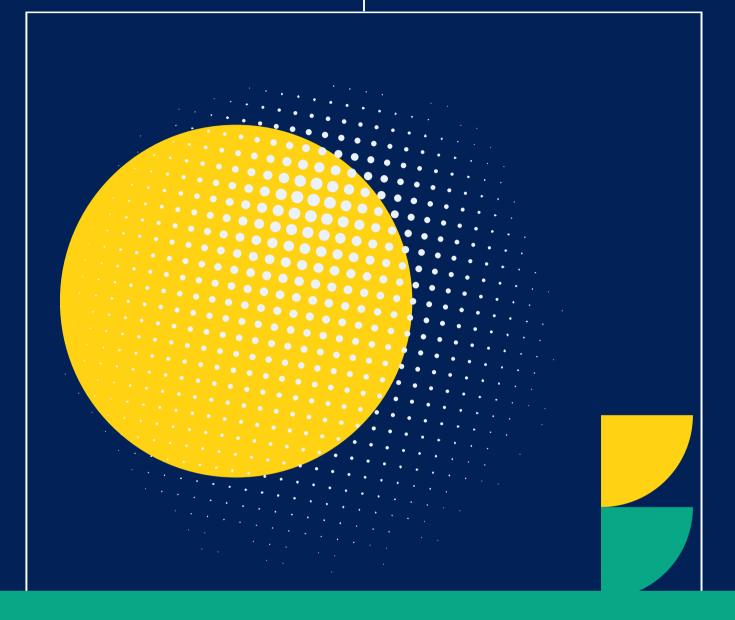
On 09.05.2024, Mr. Sinan ÇAĞATAY, System Layout Design Manager of Turkish Aerospace Industries (TAI), participated in the online conversation between TAI and students and academicians as a speaker and gave comprehensive information about the point reached by the Turkish Aerospace industry in our country and the KAAN project, which is a National Fighter aircraft.



On 05.01.2023, under the of roof Engineering Mechatronics Club, a technical trip was organized to TAKIMSAŞ Cutting Tool and Machinery San. Tic. ve A.Ş. Yenibosna facilities with 2nd and 3rd grade students accompanied by Asst. Prof. Cansu NOBERİ and Res. Asst. Tunay ACIMAN.



research HIGHLIGHTS



OUR GRADUATES

Selin YEŞİL Business Development Specialist Graduated in 2019



My university has a modern campus that offers the latest technologies and equipment to Mechatronics engineering students. In addition, the academic staff consists of experienced and passionate teachers who are experts in their fields. They always stand by their students and do their best to provide them with practical skills as well as theoretical knowledge. The Mechatronics engineering program allows students to gain a comprehensive understanding of the integration of mechanical, electrical and computer systems. Through this program, students can specialize in areas such as robotics, automation and control systems that play an important role in industry. Also, another advantage of the mechatronics engineering program is that students are equipped with advanced research techniques and innovative ideas. I, both as a mechatronics engineer and as a master's degree mechatronics engineering student, believe that this program will offer many opportunities to my career and I experience this in my business life. During my time at my school, many conferences, seminars and events were organized about mechatronics engineering. In this way, students like me had the opportunity to learn about the latest developments in the field.

After completing my education as a mechatronics engineer, I first started working as a project engineer. However, I continued to look for new opportunities and improve myself in my business life. Finally, I decided to work as a business development specialist and I am very happy with this decision. Now, I develop business strategies by approaching projects from a larger perspective and have a broad network of companies working with companies in different industries. This change in my job motivates me and makes me feel more productive. My mechatronics engineering background helps me approach the problems I'm facing in my new position from a different perspective.

In conclusion, I think the field of mechatronics engineering is an exciting and promising discipline. My university and its academic staff have done their best to help me progress in this field. I strongly recommend it to anyone who wants to choose this program.

Abdullah Can AL Research Assistant Graduated in 2020



The reason why I chose Istanbul Gelişim University was that the infrastructure and workshops required for engineering were useful and state-of-the-art. After studying here, I realized how right my decision was. Because I frequently used these workshops and laboratories in the projects and application courses I was involved in. Another reason why I chose IGU was the investments it made in the aviation field. I have been interested in aviation since I was little. In Gelisim University, there were aviation departments not only in the engineering faculty but also in other faculties and vocational schools. In this way, I learned not only the engineering part, but also the mechanical, avionics, technician parts and operation managements of aviation from my friends who studied those departments. In this way, I participated in the Teknofest competition, which I participated in the rocket category for the first time in 2019, with a total of 9 rockets in the following years. I participated in the UAV category 4 times with my friends at Gelişim University, whom I met in the Unmanned Aerial Vehicle category.

After graduating from mechatronics engineering, I started my master's degree in Aeronautical Engineering at Istanbul Gelişim University, Institute of Science, as I wanted to combine the mechanics, electrical-electronics and software knowledge I learned here with aviation and I am still continuing. I used to dream of working in the industry, but as I took part in projects and started researching things for projects and courses, I realized that the academic side interested me more. I would always have to do research and I would not stop producing projects, this was exactly what I dreamed of. I would also be able to share my experiences and knowledge with my young friends. In the light of these thoughts, I started to work as a research assistant in 2021, one year after my graduation. On the one hand, I can do research, review and write articles, and on the other hand, I can continue with the projects. I am currently in my thesis period in my master's degree and it is a great benefit for me to use the laboratories and workshops I mentioned at the beginning for my thesis on UAVs at Istanbul Gelişim University.

I am grateful to all my professors who made me love the academy and taught and instilled in me that it is not possible to achieve success without effort, research and self-development, and all my colleagues with whom I have established a good friendship environment in projects.

Taylan KARASOY Field Engineer Graduated 2022



While I was undecided between the engineering branches at the university choice stage, where I will finish high school and take the first step for my profession, I preferred the IGU Mechatronics Engineering department as a result of the mentorship I received after meeting with the academicians of all departments. The main reasons for me to include IGU Mechatronics Engineering in my preference list were the support of engineering students who are still in the education stage to implement their big projects, the quality of the social elective courses and the competent academic staff in their field. During my student years, I became a finalist in the TEKNOFEST Rocket competition with my team, which included members from other departments in our faculty, and gained experience in teamwork and project management. My R&D studies, which started with the guidance of my professors when I was a first year student, continued throughout my university life. While I was dealing with projects and improving my technical infrastructure, I had the chance to take Japanese education, which is a social elective course, by taking advantage of the foreign language education offered by my school. Together with my friends, we established the Mechatronics Engineering Club and carried out various activities. Due to the ease of communication provided by my professors in both the department and the faculty, I received mentorship where necessary in my projects. After my graduation, I started to work as a field engineer in the field of elevator control at the Chamber of Mechanical Engineers.

Emirhan KARAKURT Automation System Software and R & D Department - Software Engineer Graduated 2020

After graduating from the Mechatronics Engineering Department of Istanbul Gelisim University, I further developed the values that my university gave me. The atmosphere of my university, the attitude of the academician and the support of the student community motivated me at Gelişim University as well, enabling me to find the best opportunities to develop and learn more. Istanbul Gelisim University not only provides academic knowledge to its students, but also teaches life lessons. Various social activities and volunteering activities are also organized for students to realize their social responsibilities and develop their leadership skills. I learned from my old school that these values are important to me and I continued to adopt these values at Gelisim University. Mechatronics engineering department of Istanbul Gelisim University has been designed in accordance with the requirements of industry 4.0, one of the most important technological developments of our age. In this section, we prepare to be successful in business life by gaining not only theoretical knowledge but also practical skills. Thanks to the wide business network of the university, internship and job opportunities in business, industry and public institutions are also provided, helping its graduates to be successful in their careers. My university left a mark on my life and prepared me for a successful career. The education I received at Gelişim University encouraged me to learn, research and explore, and enabled me to be successful in my business life. My university remains one of the most important experiences of my life and I will always remember this school with pride. As a result, my university Gelişim University, is a turning point for me and the education I received here prepared me to be successful in every aspect of my life. Honoring my unversity is also important in respecting my professors and fellow students who have given me these opportunities.



research HIGHLIGHTS



FACULTY OF ENGINEERING AND ARCHITECTURE

ACADEMIC STAFF



PROF. MEHMET HARUN BATIRBAYGİL PhD: IDMMA (YILDIZ TECHNICAL UNIVERSITY)



PROF. HÜSEYİN MURAT ÇELİK PhD: OHIO UNIVERSITY



ASSOC. PROF. İLKE CIRİTCİ
PHD: MIMAR SINAN FINE ARTS UNIVERSITY



ASSOC. PROF. TURKAN UZUN
PhD: YILDIZ TECHNICAL UNIVERSITY



ASSIST. PROF. AYTEK ALKAYA
PhD: ISTANBUL OKAN UNIVERSITY



ASSIST. PROF. ERDAL YILDIZ
PhD: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. HİLAY ATALAY
PhD: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. İLKNUR TÜRKOĞLU PhD: ISTANBUL UNIVERSITY



ASSIST. PROF. MERYEM MUZEYYEN FINDIKGİL PhD: ISTANBUL TECHNICAL UNIVERSITY

ACADEMIC STAFF



ASSIST. PROF. MURAT ARAPOĞLU PhD: YILDIZ TECHNICAL UNIVERSITY



ASSIST. PROF. NEVZAT ÖMER SAATÇİOĞLU PhD: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. SEMİH GÖKSEL YILDIRIM PhD: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. O. PAUL AGBOOLA

PhD: UNIVERSITI TEKNOLOGI MALASIA (UTM)
JOHOR BAHRU MALAYSIA



RES. ASSIST. BETÜL GÖK



RES. ASSIST. BURCU KORKUT



RES. ASSIST. HAZAL TÜRKMEN YAZGAÇ



RES. ASSIST. HİLAL DEVER

ARCHITECTURE

Number of Students: 237
Year of Establishment: 2011
Internship Duration: 30 + 30 = 60 days

ARCHITECTURE (EN)

Number of Students: 546 Year of Establishment: 2013 Internship Duration: 30 + 30 = 60 days

Aim of the Department

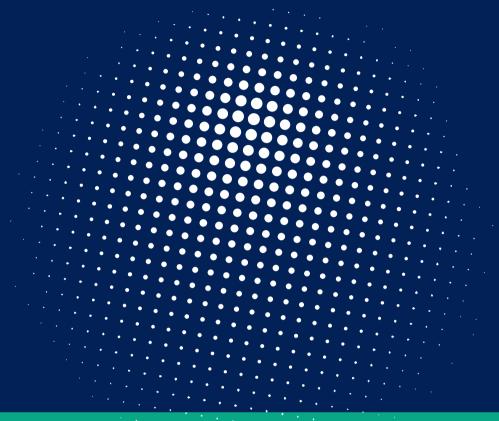
In the Department of Architecture, which operates under the Faculty of Engineering and Architecture, educational programs are implemented in accordance with the requirements of the current architectural environment. At Istanbul Gelişim University's Department of Architecture, which adopts an educational approach that supports academic studies in the field of architecture, developments in technology and architecture are closely followed and integrated into the entire education system. The department aims to educate leading architectural designers and innovative architectural researchers of the era, providing education in line with national and international standards.

SOME COURSES

- History of Architecture and Art
- Introduction to Architectural Design I
- Structural Sciences I
- Architectural Design I
- Principles of Urban Design







SCIENTIFIC RESEARCHES



research HIGHLIGHTS



60

SCIENTIFIC STUDIES





- 18 Proceedings
 - 2 Book chapters
 - 2 Books
 - 2 Patents
 - 2 Projects

34 ARTICLES

AUTHOR	TITLE	JOURNAL NAME	VOLUME /PAGE	YEAR
Agboola O. P.	Promoting Sustainable health and safety in post-pandemic disaster risk management in Istanbul, Turkey	Frontiers in Built Environment	11	2025
Agboola O. P., Arapoğlu M.	Energy-Efficient Urban Landscapes: Advancing the Built Environment through Sustainable Ecological Planning	International Journal of Engineering and Technologies	9(4),109- 122	2025
Arapoğlu M.	İstanbul Asitane tipi Mevlevihanelerin Güncel İşlevlerinin Mevleviliğin Somut Olmayan Kültürel Niteliklerine Etkilerinin Değerlendirilmesi	ART/icle: Sanat ve Tasarım Dergisi	4(2), 278- 303	2025
Ciritci İ., Gedik İ.	Endüstri Mirası Yapıların Yeniden İşlevlendirilmesi; Karar Alma ve Model Oluşturmada Yerel Halkın Katılımının Önemi	Beykent Üniversitesi Fen ve Mühendislik Bilimleri Dergisi	18(1), 31-52	2025
Jetto B., Yıldırım S. G.	Revitalizing a vernacular architectural element through sustainability: Contemporary applications of mashrabiya	ART/icle: Sanat ve Tasarım Dergisi	5(1), 15-36	2025
Koşar A. E., Ciritci İ.	Yerel-Kırsal Kalkınmaya Katkı Sağlaması Açısından Endüstriyel Mirasın Araç Olarak Kullanılması	Yeni Fikir Dergisi	16(34), 1-20	2025
Saatcioğlu N. Ö., Arapoğlu M.	Saman Balya Yapım Sistemlerinin Dünyada ve Türkiye'de Tarihsel ve Eyfimsel Süreçlerinin İncelenmesi	ART/icle: Sanat ve Tasarım Dergisi	5(1), 142- 170	2025
Yıldırım S. G., Baur S.	Rethinking structural design education through boundary conditions and design flexibility in PBL	Asean Journal of Engineering Education	9(1), 11-21	2025
Yıldırım S. G., Ciritci İ.	Adaptive reuse of historical buildings through cultural heritage conservation: the warehouse of Sirkeci Train Station	New Design Ideas	cilt.9, sa.2, ss.1-22	2025

AUTHOR	TITLE	JOURNAL NAME	VOLUME /PAGE	YEAR
Yıldırım S. G., Ciritci İ., Fındıkgil M. M., Atalay H.	Shipping containers as temporary shelters in post-disaster scenarios: flying factories	International journal of engineering technologies	9(3), 73-83	2025
Yıldırım S. G., Erol İ.	Evaluation of transitional space designs in terms of visual perception parameters	Turkish Online Journal of Design, Art and Communication (TOJDAC)	15(3), 715- 728	2025
Zakka S. D., Agboola O. P., Olatunji S. A., Yakubu S. U.	Smart Cities and Environmental Sustainability: Evaluating the Nexus in SouthWest Nigeria	Indonesian Journal of Geography	57(1), 10-20	2025
Agboola O. P.	The Role of Artificial Intelligence in Enhancing Design Innovation and Sustainability	Smart Design Policies	1(1), 6-14	2024
Agboola O. P., Ahmad Nia H., Findikgil M. M., Yıldırım S. G.	Assessing the Effectiveness of Biophilic Design Approach in Contribution to Sustainable Architectural Goals	New Design Ideas	8(Special Issue), 144- 169	2024
Agboola O. P., Alotaibi B. S., Dodo Y. A., Abuhussain M. A., Abuhussain M.	Built environment transformation in Nigeria: the effects of a regenerative framework	Journal of Asian Architecture and Building Engineering	23(2), 789- 812	2024
Agboola O. P., Zakka S., Olatunji S.	Experts profiling on a healthier built environment: Lowering the threat of climate change	International Journal of Human Capital in Urban Management	9(1), 47-60	2024
Alotaibi B. S., Elnaklah R., Agboola O. P., Abuhussain M. A., Tunay M., Dodo Y. A., et al.	Enhancing Najran's sustainable smart city development in the face of urbanization challenges in Saudi- Arabia	Journal of Asian Architecture and Building Engineering	24(4), 2905–2935	2024

AUTHOR	TITLE	JOURNAL NAME	VOLUME /PAGE	YEAR
Arapoğlu M.	X. ve XII. Yüzyıllar Maveraünnehir Ribatları	Sanat ve İnsan Dergisi	8(1), 151- 168	2024
Ciritci İ., Shadnia S.	Iranian Industrial Heritage: Adaptive Re- use of the Rayy Cement Factory	Digital International Journal of Architecture, Art & Heritage	3(3), 16-28	2024
Henry O., Agboola O. P., Shamang K. J.	Unveiling the Impact of Urban Green Landscape on Quality of Life in Kaduna, Nigeria: Residents' Perceptions and Sustainable Strategies	Journal of Contemporary Urban Affairs	(8), 16-36	2024
Ojobo H., Agboola O. P., Lukman M.	Human-Nature Relationships and Their Implications for Ecosystem-Based Management: A Review	AAUA Journal of Environmental Design and Management	3(1), 39-57	2024
Oluwagbemiga Paul A., Uduma-Olugu N.	Exploring the symbiotic relationship between smart technologies and thermal comfort in urban environments	Social Sciences and Humanities Open	10	2024
Yıldırım S. G.	Creating a model-based learning environment in BIM education through case studies	Journal of Architectural Sciences and Applications	9(2), 1129- 1148	2024
Yıldırım S. G., Baur S. W.	Redesigning course improvement plan; a case study based-on learning outcomes in engineering education	Asean Journal of Engineering Education	8(1), 1-10	2024
Agboola O. P.	Strengthening Resilient Built Environments through Human Social Capital: A Path to Post-COVID-19 Recovery	Urban Science	7(4), 114- 139	2023
Agboola O. P., Bashir F. M., Dodo Y. A., Mohamed M. A. S., Alsadun I. S. R.	The influence of information and communication technology (ICT) on stakeholders' involvement and smart urban sustainability	Environmental Advances	13	2023

AUTHOR	TITLE	JOURNAL NAME	VOLUME /PAGE	YEAR
Agboola O. P., Ojobo H., Aliyev A.	Ameliorating Climate Change Impacts on the Built Environment	Civil Engineering and Architecture	1(3), 1324- 1336	2023
Agboola O. P., Tunay M.	Urban resilience in the digital age: The influence of Information-Communication Technology for sustainability	Journal of Cleaner Production	428	2023
Atalay H., Gülersoy N. Z.	Developing Social Sustainability Criteria and Indicators in Urban Planning: A Holistic and Integrated Perspective	ICONARP International Journal of Architecture and Planning	11(1), 1-23	2023
Ciritci İ.	Dolgu Zemin Etkinlik Alanlarının Tasarımı Üzerine Eleştirel Bir Değerlendirme: New York-HDPK Little Island ve İstanbul- Yenikapı	ART/icle: Journal of Arts and Design	2(2), 158- 178	2023
Findikgil M. M.	A Comparative Framework Analysis of the Strategies, Challenges and Opportunities for Sustainable Smart Cities	Emerald Insight	1(1), 187- 211,	2023
Yıldırım S. G., Baur S. W., Yarbrough T. G., Nieters M.	Experiential learning in daylighting course through performance measurements	International journal of engineering technologies	8(3), 123- 130	2023
Yıldırım S. G., Baur S. W., Yarbrough T. G., Nieters M.	Proposed framework for daylight-focused homes during design development	International journal of engineering technologies	8(2), 77-82	2023

18 PROCEEDINGS

AUTHOR	TITLE CONGRESS NAME		VOLUME /PAGE	YEAR
Agboola O. P., Arapoğlu M., Hourakhsh Ahmad N., Alsharif A.	Empowering Urban Sustainability Through Higher Education: A Strategic Framework for Student-Driven Initiatives at Istanbul Gelisim University	Conference Proceedings of the 8th International Conference of Contemporary Affairs in Architecture and Urbanism	ss. 64-65	2025
Agboola O. P., Hourakhsh A. N.	Digital Inclusion and Sustainability in Nigerian Urbanism: Adaptive Service Frameworks for Smart City Resilience	Conference Proceedings of the 8th International Conference of Contemporary Affairs in Architecture and Urbanism	sa.8, ss.62- 63	2025
Arapoğlu M., Mohtasebzada G.	Bahariye Mevlevihanesi Semahanesinin Doğal Aydınlatma Açısından İncelenmesi	YTÜ Mimarlık Tarihi Çalışmaları-I	ss.285-325	2025
Arapoğlu M., Mohtasebzada G.	Malatya ve Herat Ulu Camilerinin Mimari Planlarının Karşılaştırmalı İncelemesi	YTÜ Mimarlık Tarihi Çalışmaları-I	ss.350-385	2025
Korkut B.	Görünmezlikten Görünürlüğe: Duyumsanabilir Olanın (Yeniden) Dağılımında Liminal Mekânlar	Mimarlıkta Estetik Olgusu Sergisi ve Sempozyumu		2025
Saatcioğlu N. Ö., Yaşa E., Tekin İ.	Breathing Straw Bale Wall System	Architectural Episodes III - Innovation, Technology, Digital Transformation and the future of the construction industry international Symposium		2025
Agboola O. P., Oluyinka S., Aliyev A., Cusipag M.	The Roles of Homepage Design on Homepage Authenticity and Peculiarity in Online Shopping Platforms	3rd International Conference on Global & Emerging Trends (ICGET2024). Artificial Intelligence, Automation, Emerging Technologies & Interdisciplinary Integrations	1(1), 164- 167	2024

AUTHOR	TITLE	CONGRESS NAME	VOLUME /PAGE	YEAR
Agboola O. P., Zakka S. D., Agboola M. A.	Resilient Urban Futures: Integrating Ecological Engineering For Climate- Responsive Planning	2nd International Canadian Scientific Research Congress	2(2), 24-25	2024
Alınak A., Arapoğlu M.	A Comparative Evaluation of the Entrance Facades of the Semahane Structures in the Galata and Bahariye Mevlevihanes	International 9th Socrates Health, Engineering and Applied Sciences Congress		2024
Değirmenci A., Arapoğlu M.	Analyzing the Relationship Between the Courtyards of the First Three Selattin Külliye Mosque Courtyards Built After the Conquest and Other Spaces	International 9th Socrates Health, Engineering and Applied Sciences Congress		2024
Korkut B.	Kentsel Praksis Olarak Sokak Sanatı: Kentsel Mekânın Felsefesi ve Politikası	RC21 Conference		2024
Shema A. I., Agboola O. P., Aminu A. A., Okpakhalu L. D., Ayoosu M. I.	Enhancing Sustainability and Efficiency: The Integration of Smart Technologies in Built Environment Design	5th School of Environmental Technology International Conference	cilt.1, ss.507-519	2024
Sugün E., Noorı A. R., Yıldırım S. G.	Optimizing mesh size for static response analysis of vault structures via finite element method	5th International Conference on Advanced Engineering Technologies	ss.776	2024
Türkmen Yazgaç, H. & Ulusoy Binan, D.	Conservation Approach of Ottoman Roadside Halting Place (Menzil) Complexes by Mimar Sinan	The 8th International Conference on Conservation of Architectural Heritage (CAH)		2024
Yıldırım S. G., Küçükdoğu M. Ş.	Binalarda günışığı performansı değerlendirme metodları ve kullanım alanları	4. Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi	ss.117-128	2024

AUTHOR	TITLE	CONFERENCE NAME	VOLUME/PAGE	YEAR
Yıldırım S. G., Küçükdoğu M. Ş.	Performance evaluation of daylight in terms of visual comfort in design studios and classrooms	Balkanlight 2024 Conference	ss.389-398	2024
Agboola O. P., Nia H. A.	The Enhancement of Resilience Built Environment Using Human Social Capital: Post Covid-19 Recovery	6th International Conference of Contemporary Affairs in Architecture and Urbanism	ss.102-103	2023
Saatcioğlu N. Ö.	An Innovative Breathing Straw Bale Wall	Uluslararası II.Yapı Biyolojisi Forumu		2023

2 BOOK CHAPTERS

AUTHOR	TITLE	BOOK TITLE	PUBLISHER	YEAR
Yıldırım S. G.	Kent içi üniversite kampüsünde mekansal genişleme ve dönüşüm	Krizler ve dönüşümler çağında mekansal çalışmalar	İstanbul Gelişim Üniversitesi Yayınları	2025
Türkmen Yazgaç, H. & Ulusoy Binan, D.	Conservation Approach of Ottoman Roadside Halting Place (Menzil) Complexes by Mimar Sinan	Advances in Science, Technology & Innovation	Springer Nature	2025

2 BOOKS

AUTHOR NAME	AUTHOR NAME BOOK TITLE		YEAR
Yıldırım S. G., Ciritci, i.	Kadıköy'ün bağımsız tiyatrolarında karşılama mekanları	TMMOB Mimarlar Odası İstanbul Büyükkent Şubesi	2025
Ciritci İ.	Günümüz Japon Mimarisini Tokyo Üzerinden Okumak	İstanbul Gelişim Üniversitesi Yayınları	2025

2 PATENTS

PATENT HOLDER	PATENT TITLE	YEAR	
Saatcioğlu N. Ö.	Volumetric Solar Cell	2025	
Saatcioğlu N. Ö.	Hacimsel Güneş Pili	2024	

2 PROJECTS

PROJEC TYPE	NAME-SURNAME	ROLE IN THE PROJECT	PROJECT TITLE	PROJECT BUDGET	YEAR
TÜBITAK 1002	Hazal Türkmen Yazgaç	Coordinator	Mimar Sinan dönemi menzil külliyelerinin üstün eyrensel değeri ve dünya mirası potansiyeli üzerine bir araştırma	100.000	2025- 2026
TÜBİTAK 2269A	Semih Göksel Yıldırım	Advisor	Tonoz <mark>Sistemler</mark> i Üzerinde Gün Işığı Aydınlatmasına ve Yapısal Performansa İlişkin Karşılaştırmalı Analiz	-	2024- 2025



research HIGHLIGHTS



EVENTS





ASSOC. PROF. DR. İLKE CİRİTCİ WAS A GUEST OF ARCHITECT CEM SORGUÇ AT AKBANK SANAT

Assoc. Prof. Dr. İlke CİRİTCİ, faculty member of the Architecture Department, was invited to Akbank Sanat as a guest of architect Cem Sorguç within the seminar program "SEK SEK / A Beyoğlu Hopscotch."

Following the screening of a documentary about the stairs and slopes of Beyoğlu, a discussion on the topic took place.

Watch the talk here:

https://www.youtube.com/watch? v=T01eSOn4lNI

LAUNCH OF THE GERMAN TRANSLATION OF "THE LONGEST CENTURY OF THE EMPIRE"

Dr. Meryem M. Findikgil, faculty member of the Architecture Department, served as the moderator at the launch event for the German translation of historian Prof. Dr. Ilber Ortayli's book, "The Longest Century of the Empire."

Following the event organized by Literaturca Verlag at the Turkish-German Bookstore, the author signed copies of "Das längste Jahrhundert des Osmanischen Reichs" for attendees.



PRIVATE UNIVERSITY OF FEZ ACADEMICIANS AND STUDENTS VISIT OUR ARCHITECTURE DEPARTMENT



A delegation from Morocco visited our Architecture Department with the support of the Istanbul Gelişim University International Exchange and Cooperation Coordination Office.

The team consisted of two faculty members and fifteen students from the Architecture Department of the Private University of Fez. Information about our department was shared with the visitors, and potential future collaborations were discussed.

Guest university website: https://www.upf.ac.ma/

NATIONAL PATENT APPLICATION FROM DR. N. ÖMER SAATCIOĞLU

Dr. Ömer Saatcıoğlu, faculty member of the Architecture Department, has filed a national patent application for his innovative invention called the "Volumetric Solar Cell."

This innovative design aims to enable highefficiency energy production in confined spaces as an alternative to traditional solar panels. The invention operates by integrating transparent solar cells into a volumetric design.

The system allows sunlight of different wavelengths to pass through multiple layers of transparent solar cells. By optimizing the transparency ratios of these layers, both direct and reflected light are utilized with maximum efficiency. Additionally, highly efficient opaque solar cells are located at the core of the structure. This innovative arrangement makes it possible to

This innovative arrangement makes it possible to maximize solar energy harvesting even in limited spaces.



FENER-BALAT TRIP AS PART OF THE COURSE



In both the Turkish and English Architecture Departments, the courses ARC347 New Building Design in Historical Environment and MIM347 New Building Design in Historical Environment are offered this semester, focusing on the FENER-BALAT area as the study site. During the site visit, students gained insights into the historic fabric, spatial and structural components of historic buildings, and had the opportunity to experience Fener-Balat, notable tourist and historic district, firsthand. Accompanied by Assoc. Prof. Dr. İlke Ciritci, students will use the data collected during the visit design balanced and respectful contemporary buildings with an awareness of being in a historic environment.

It is planned to organize an exhibition of the semester's final projects, and selected designs will be submitted to a competition held in this area.

DISCUSSION ON THE PROJECT TOPIC AND IMPRESSIONS AT THE DESIGN WORKSHOP IN KADIKÖY (TAK)

Students enrolled in ARC202 and ARC209 Architectural Design I-II courses, along with the course instructors Assoc. Prof. Dr. Ilke Ciritci, Assoc. Prof. Dr. Türkan Uzun, Dr. Önder Çelik, and Dr. Aytek Alkaya, conducted a field study in Kadıköy.

Following the site visit, a discussion on the project topic and observations was held at the Design Studio Kadıköy (TAK).



SEYFI ARKAN ARCHITECTURE WORKSHOP 3RD STAGE EXHIBITION OPENING



As part of the 100th Anniversary Celebrations of our Republic, we held the opening of the third phase of the workshop titled "Atatürk's Architect: Seyfi Arkan / Seyfi Arkan Architecture", with the participation of our esteemed Rector Prof. Dr. Bahri Şahin and our Vice Rector and Dean Prof. Dr. Necmettin Maraşlı.

Our students presented models at the exhibition, including a scale model of the Florya Sea Mansion, a fundamental model demonstrating the construction system, as well as interior models of the living room reception area and Atatürk's study rooms located at the entrance. Through these, they conveyed the modernist understanding of the new republic to the attendees.

We extend our gratitude to our instructors Assoc. Prof. Dr. İlke Ciritci, Dr. Semih G. Yıldırım, Dr. Meryem M. Fındıkgil, Dr. Aytek Alkaya, and to all our students for their valuable contributions.

CONFERENCE ON "ARTIFICIAL INTELLIGENCE AND ARCHITECTURE"

A conference titled "Artificial Intelligence and Architecture" was held at the Mehmet Akif Ersoy Conference Hall with the participation of Fatih Ekşi. This event provided an opportunity to explore innovative applications of artificial intelligence in the field of architecture and its future visions.

The conference was well received by both faculty members and students from the Departments of Architecture and Interior Architecture.



PARTICIPATION IN THE EVENT OF ARCHITECT ALPER DERINBOĞAZ AT ISTANBUL MODERN



Students from the Architecture (English) Department attended an event at Istanbul Modern to listen to a presentation by Architect Alper DERINBOĞAZ, who is internationally recognized and has received numerous awards and completed various implemented projects.

The students were informed about innovative projects such as the new museum and the Tog Brand Vehicle Center.

PARTICIPATION IN THE TMMOB CHAMBER OF ARCHITECTS 'ARCHITECTURAL SERVICES REGULATION DRAFT' REGIONAL WORKSHOP

Assoc. Prof. Dr. İlke CİRİTCİ, one of the faculty members of the Istanbul Gelişim University Department of Architecture, participated in the Marmara Region Workshop hosted by the Istanbul Metropolitan Branch.

Within the framework of four working groups focused on the draft Regulation on Architectural Services, collective proposals were developed. Assoc. Prof. Dr. İlke CİRİTCİ contributed specifically to the workshop at Table 3: Academics and Services Requiring Expertise.

The workshop concluded with original proposals and outcomes aimed at benefiting the architectural profession and is intended to guide ongoing regulation efforts. We extend our gratitude to the Union of Chambers of Turkish Engineers and Architects (TMMOB) Chamber of Architects, Istanbul Metropolitan Branch for hosting the event.

ARC202 ARCHITECTURAL DESIGN II TECHNICAL TRIP



The design problem for ARC202 Architectural Design II is a Community Center – Social Hub located in a historic urban area. The Social Center is to be designed as a "multi-functional" and "flexible solidarity space" that provides basic needs such as shelter, food, education, and healthcare.

While encouraging an innovative thinking environment, the center will also serve as a cultural hub for the community, offering publicly accessible meeting, exhibition, and workshop spaces. Additionally, the center must be adaptable to potential crisis situations (for example, it can function as an emergency gathering point after a disaster, provide a "community kitchen," or offer temporary shelter to those in need).

As part of the project, students enrolled in the course participated in a technical field trip along Tersane Street and the Golden Horn shoreline together with the course instructor, Assoc. Prof. Dr. İlke Ciritci.

PARTICIPATION IN THE CONFERENCE TITLED "MEDIA ARCHITECTURE" BY CANADIAN DESIGNER BRUCE RAMUS

Under the supervision of Assoc. Prof. Dr. Türkan UZUN, within the scope of the MIM105 Basic Concepts in Architecture course, students attended a lecture titled "Media Architecture" by Canadian designer Bruce Ramus at the Sedat Hakkı Eldem Auditorium of MSGSÜ as part of an event organized by İstanbul Aura.

Students were informed about current innovative designs, with examples focusing on the use of light on building façades.



RENOVATION OF IGU J BLOCK ENTRANCE AND FOYER AREAS



The "design and implementation project" for the renovation of the entrance and foyer areas of Block J at Istanbul Gelişim University was successfully completed through a collaborative effort between the Faculty of Engineering and Architecture and the Faculty of Fine Arts.

The project team consisted of Dr. Semih G. Yıldırım from the Department of Architecture, Dr. İbrahim Erol from the Department of Interior Architecture and Environmental Design, and students Melek Çelik and Havvanur Çaşka from the same department.

The implementation was jointly supervised by the Project Team and the Department of Construction and Technical Affairs. The opening of the renovated entrance foyer took place alongside an exhibition organized by the Department of Interior Architecture and Environmental Design, in which the project was also presented through a poster display.

In recognition of their work, the project team was awarded a plaque and certificate of appreciation.

PREPARATION OF THE CURTAIN WALL CONCEPT PROJECT FOR THE FACULTY OF DENTISTRY BUILDING

The Faculty of Dentistry Building at Istanbul Gelişim University was created through the adaptive reuse of an existing structure, transforming it into an educational facility. As an urban campus that continuously interacts with its surroundings, the university identified the need to renovate the façade of this building within the framework of the campus master plan.

To address this, a cladding façade concept project was commissioned by the university's senior administration and designed by Dr. Semih G. Yıldırım from the Department of Architecture, Faculty of Engineering and Architecture. The implementation was supervised by the Department of Construction and Technical Affairs, and the cladding façade installation has been successfully completed.



PARTICIPATION IN TRT 2 CULTURE AND ARTS PROGRAM



Assoc. Prof. Dr. Türkan Uzun participated as a speaker in a cultural and arts program to be broadcast on TRT 2, where she shared insights on Architect Vedat Tek and the First National Architectural Movement. The program featured discussions on the architectural spaces, stylistic elements, and specific sections of one of Vedat Tek's most significant works, the Grand Sirkeci Post Office. The episode has been recorded as part of the program series.

CHAMBER OF ARCHITECTS 17TH URBAN DREAMS WORKSHOPS

As part of the 17th "Urban Dreams" (Kent Düşleri) Workshops organized by the Chamber of Architects, a design group focusing on "Architecture and Borders" is being conducted in an open, undeveloped area parallel to the coastline within the boundaries of Maltepe Municipality, aiming to develop concepts for recreational and promenade spaces.

The one-month-long workshop is led by the Maltepe Chamber of Architects Administrative Board team in collaboration with faculty members from the Istanbul Gelişim University Department of Architecture, Assoc. Prof. Dr. Türkan UZUN and Lecturer Burak Kaan YILMAZSOY, who serve as project coordinators.



OUR STUDENTS' PARTICIPATION IN THE HISTORICAL PENINSULA CREATIVE APPROACHES STUDIO



The Historic Peninsula Creative Approaches Studio, organized by the Istanbul Planning Agency, stood out as an event aimed at exploring the potential of this unique region and shaping future design approaches. As part of the program, participants from various disciplines conducted in-depth studies on the historical and cultural layers of the area.

Through workshops, field trips, and creative discussions, the development of individual visions was supported, and a shared understanding of future-oriented design was fostered. Experts in fields such as architecture, design, art, and urban planning guided participants in developing creative and sustainable projects.

Irem Ceryan and Sümeyye Şahin, third-year students from the Department of Architecture, successfully took part in this studio, completed the program, and earned their certificates of participation.

OUR STUDENT EBRAR SUGÜN RECEIVED SUPPORT FOR THE "TÜBİTAK 2209A UNIVERSITY STUDENTS RESEARCH PROJECT"

The paper titled "Optimizing Mesh Size for Static Response Analysis of Vault Structures via Finite Element Method", produced from the research of Ebrar Sugün, a student from the Department of Architecture and recipient of support from the TÜBİTAK 2209-A—Research Project Support Program for Undergraduate Students, has been accepted for presentation at the 5th International Conference on Advanced Engineering Technologies (ICADET).

The paper was co-authored by Ebrar Sugün, Ahmad Reshad Noori, and Semih Göksel Yıldırım, with contributions from faculty members from both the Architecture and Civil Engineering departments.







OUR GRADUATES

OUR GRADUATES



ABDULRAHMAN DAVUT Undergraduate Student, 4nd Year

I would like to share the reasons why I chose architecture and Istanbul Gelişim University (IGU). My decision to pursue architecture came after research I conducted during the university selection period—it was based on the skills the profession offers and the purpose it serves. I chose IGU because of its experienced instructors and the opportunities it provides.

Thanks to the guidance and education of our professors, I've developed the ability to notice every detail when I enter a space. I now pay attention to elements like materials, craftsmanship, quality, and design.

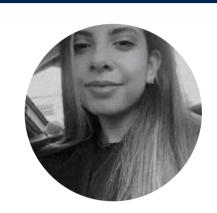
In terms of education, during the first year we took a Technical Drawing course, where we learned hand drawing and technical skills. Then, another key course, Basic Design, introduced us to exhibitions and museums and guided us through the fundamentals of abstract thinking in design. We also build models using various materials, allowing us to understand their properties.

In the second year, we start designing actual projects. What matters most in project design is conducting thorough site analysis and using that data as a foundation. Then we present our ideas through sketch studies. Our professors guide us through every step of this process.

In addition, we use many digital programs throughout the design process. Each week, our professors recommend exhibitions and competitions, which help us continue developing ourselves.

OUR GRADUATES

İlayda ÖZDEMİR Architect / Interior Architect



Hello, I'm İlayda Özdemir. I graduated from Istanbul Gelişim University with a major in Interior Architecture and Environmental Design and a double major in Architecture. After gaining experience for three years in both the design and implementation aspects at various firms, I established my own company.

When I first got accepted into the program, I was quite anxious because studying a design-related discipline is different from other departments—you're expected to express your ideas on the spot rather than scheduling a meeting with a professor. One of the biggest advantages of studying at IGU is the accessibility of the instructors, regardless of time or place. I want you to know that every professor's door is always wide open for you.

IGU takes you far beyond a rote-learning system. It encourages you to think and constantly improve yourself. I can confidently say that it prepares you very well for the professional world. For example, each semester you are given projects with progressively larger square meter areas. You also get the opportunity to work with different professors each term, which helps you better understand the varying needs of different client groups in the industry. To me, IGU is not just the university I graduated from—it's my family and one of my biggest "I'm glad I did this" decisions. Even after graduation, I gained a big family that continues to support me and always makes me feel

their presence.





FACULTY OF ENGINEERING AND ARCHITECTURE

BASIC SCIENCES

GENERAL INFORMATION

The primary aim of the Department of Basic Sciences is to provide the scientific infrastructure required for all undergraduate programs within the Faculty of Engineering and Architecture and to contribute to the development of students with a solid foundation of knowledge from the earliest years of their engineering education.

For this purpose, the department aims to equip engineering students with academic and intellectual skills such as:

Understanding the fundamental principles of natural sciences, Developing mathematical thinking skills,

Analyzing physical and chemical processes,

Interpreting numerical and experimental data,

Developing a scientific inquiry and research ability,

Acquiring interdisciplinary thinking competence.

The Department of Basic Sciences is not only a unit that imparts technical knowledge; it is also an educational unit that helps students develop critical and analytical thinking, strengthen problem-solving skills, and embrace a scientific approach.

Furthermore, by effectively imparting knowledge in physics, mathematics, and chemistry, the foundations of engineering and architectural practice, the department plays an indispensable role in enabling students to understand and apply more advanced professional courses.

GENERAL INFORMATION

The objective of the Department of Basic Sciences is to contribute to the development of students as analytical, creative and solutionoriented individuals by establishing a solid scientific foundation in engineering and architecture education. While our department is not accepting students, its objectives can be summarized as follows:

To strengthen students' fundamental scientific knowledge and skills through physics, mathematics, and chemistry courses offered in the first years of engineering and architecture programs.

To equip students with analytical thinking, numerical analysis, critical inquiry, and problem-solving skills.

To reinforce students' theoretical knowledge through laboratory exercises and experimental work.

To provide the necessary academic infrastructure for students to participate in scientific research processes at an early stage.

To foster the interaction of knowledge between different engineering and architecture fields by creating a learning environment that encourages interdisciplinary studies.

To establish an infrastructure that will contribute scientifically to interdisciplinary projects and R&D studies conducted within the faculty.

To ensure that academic staff stay abreast of current scientific developments and provide students with a universally valid education.

The Department of Basic Sciences not only contributes to the educational process but also plays a strategic role within the faculty as a versatile and dynamic structure open to scientific collaborations at the intersection of engineering and architecture disciplines.





FACULTY OF ENGINEERING AND ARCHITECTURE

AERONAUTICAL ENGINEERING

ACADEMIC STAFF



Prof. Osman KOPMAZ Ph. D. İstanbul Teknik University



Prof. Bahri ŞAHİN Ph. D. İstanbul Teknik University



Prof. Necmettin MARAŞLI Ph. D. Oxford University



Prof. Ali KODAL Ph. D. The University Of Michigan



Prof. Mahmut Adil YÜKSELEN Ph. D. İstanbul Teknik University



Prof. Osman Ergüven VATANDAŞ Ph. D. İstanbul Teknik University



Assist. Prof. Sara FAWAL Ph. D. İstanbul Teknik University



Prof. Ahmet Cihat BAYTAŞ Ph. D. İstanbul Teknik University



Prof. Oktay ÖZCAN Ph. D. University Of California



Assist. Prof. Murat Metehan TÜRKOĞLU Ph. D. İstanbul Teknik University



Assist. Prof. Sevgihan Yıldız BİRCAN Ph. D. Nagoya University



Res. Assist. Mustafa Cem AVCI

ACADEMIC STAFF



Res. Assist. Ziya ATAY



Res. Assist. Melis ÖZŞAHİN TOKER



Res. Assist. Özlem YALÇIN



Res. Assist. Hüseyin Furkan ÇELİK

AERONAUTICAL ENGINEERING

Student Number: 889

Department Opening Year: 2019

Internship Duration: 30 + 30 = 60 working days

Aim of the Department

Aeronautical Engineering is defined as a field of science concerned with the design, production, testing, research and development, maintenance, and repair of all types of manned and unmanned vehicles operating in the air and space. The Department of Aeronautical Engineering aims to train skilled engineers with problem-solving abilities in their profession, capable of innovative thinking, and able to serve the aviation and space industries successfully. This is achieved through a curriculum that combines theoretical and practical courses and an education system that keeps up with current developments in real time.

Some Courses from Curriculum

- Aircraft Design
- Aerodynamics
- Flight Mechanics
- Automatic Control
- Propulsion Systems
- Aerospace Materials

AERONAUTICAL ENGINEERING RESEARCH AREAS

- Aerodynamics
- Flight Sciences
- Experimental and Computational Fluid Dyn
- Thermodynamics
- Aerospace Engineering
- Control Systems
- UAV Systems
- Autonomous Systems
- Energy Technologies
- Composite Materials
- Motion Capture Systems
- Heat Transfer
- Energy
- Thermal Systems
- Combustion and Turbulence Analysis in Internal Combustion Engines
- Propulsion Systems
- Experimental and Numerical Turbulence Studies









SCIENTIFIC RESEARCHES



TOTAL

27
SCIENTIFIC
PUBBLICATIONS





- 2 Projects
- 1 Book Translation



Articles

AUTHOR	TITLE	JOURNAL	YEAR
Kalay O. C., YÜCE C., Doğan O., Yllmaz T. G., KARPAT E., Kopmaz O., et al.	Fatigue performances of helicopter gears	<u>Materialpruefung/Materials Testing</u>	2023
Siyahi Hadi and Baytaş, A.C	An adaptive approach for modeling ice accretion on aircraft	Progress in Computational Fluid Dynamics, An International Journal	2023
Kaya, K. and Özcan , O	Correlations Describing Laminar Hydrodynamic Development in a Circular Pipe	Journal of Fluids Engineering	2023
Yolaçtı, A., Kaya, K. and Özcan, O.	Computational Investigation of Turbulent Shock Wave Boundary Layer Interaction Control via Secondary Recirculation Induced Wall Jet	34th International Symposium on Shock Waves, Daegu	2023
Karakurt, A. S., Gonca, G., & Sahin, B.	Work density analysis and thermoeconomic optimisation of modified Carnot cycle engine	International Journal of Exergy, 41(2), 167-181.	2023
Gonca, G., Genc, I., & Sahin, B.	Performance investigation and simulation of a diesel engine operating on seven-process cycle based on energy and exergy criteria.	International Journal of Exergy, 41(4), 391-402.	2023
Aksöz, Sezen, et al.	"Effect of Minor Sb Additions on Thermal Properties, Microstructure and Microhardness of Sn–Ag–Cu High- Temperature Solder Alloys."	Physics of Metals and Metallography 124.13 : 1547-1554.	2023
Sezer, C., Kaya, K., Onal, B. S., Heperkan, H. A., & Ozcan, O.	A Numerical Study for Coating of Ventilation Ducts Using Jet Injection.	Thermal Science	2023
Çiçek, O., Sheremet, M. A., & Baytaş, A. C.	Effect of natural convection hybrid nanofluid flow on the migration and deposition of MWCNT-Fe3O4 in a square enclosure.	International Journal of Thermal Sciences, 190, 108318.	2023
Çiçek, O., & Baytaş, A. C. (2023).	A numerical investigation of the particle behaviors and entropy generation in mixed convection inside a vented enclosure.	International Journal of Thermal Sciences, 185, 108058.	2023

Articles

AUTHOR	TITLE	JOURNAL	YEAR
ÖZEL M. A., Kopmaz O.	DESIGN OF A PERIODIC STRUCTURE FOR COMPOSITE HELICOPTER ROTOR BLADE	International Journal of Simulation Modelling	2024
Ozsahin M., KALECİK S., TOKER O., KURUCU Y., İÇELLİ O.	An alternative approach for determining the effective atomic number of some compounds: Monte Carlo study	Radiation Physics and Chemistry , cilt.215	2024
Çiçek, O., Baytaş, A. F., & Baytaş, A. C.	Entropy generation minimization of hybrid nanofluid mixed convection flow in lid-driven square enclosure with heat-generating porous layer on inner walls.	International Journal of Numerical Methods for Heat & Fluid Flow, 34(2), 629-665.	2024
Çiçek, O., & Baytaş, A. C.	Computational analysis of airborne particle behaviour in a single-bed intensive care unit with deflector implementation.	Journal of Building Engineering, 98, 111227.	2024
Aksöz, S., Esener, P. A., Öztürk, E., & Maraşlı, N.	Effects of Minor Al, Ag, and Sb Additions on the Thermal, Microstructure and Microhardness of Zn–Sn–Cu–Bi High-Temperature Solder Alloys.	Protection of Metals and Physical Chemistry of Surfaces, 60(4),	2024
Basit, S., Esener, P. A., Aydoğan, Y. Y., Aksöz, S., & Maraşlı, N.	Effects of external static electrical field on thermal and electrical conductivity in the Al-Cu, Al-Ni, and Al-Si eutectic alloys.	Thermochimica Acta	2024
Gonca, G., Sahin, B., & Hocaoglu, M. F.	The Effects of Equivalence Ratio and Temperature of Different Fuel Mixtures on the Performance and NO Emission Characteristics of a Spark Ignition Engine.	Arabian Journal for Science and Engineering	2024
Uğur M., Kopmaz O.	Design of a Spin Test System for Burst Phenomen Considering Nonlinear Rotordynamic Effects	Applied Sciences	2024
Fawal, S., & Kodal, A.	Extended Second Law Analysis for Turboramjet Engines	Isı Bilimi ve Tekniği Dergisi	2025
Türkoğlu M. M.	Evolution of wormholes under f(R, T) theory, the Karmarkar condition and the Casimir energy	Turkish Journal of Physics	2025

Articles

AUTHOR	TITLE	JOURNAL	YEAR
Bolat, F. Ç., & Avci, M. C.	Development and validation of a human-machine interface for unmanned aerial vehicle (UAV) control via hand gesture teleoperation	Expert Systems with Applications	2025
Aslan E., Yalçin Ö.	Lattice Boltzmann Modelling of Natural Convection Problems in a Cavity with a Different Wall Temperature	SAKARYA UNIVERSITY JOURNAL OF SCIENCE	2025
EMİNOĞLU H. F., TOKER Ö. S., ÖZŞAHİN TOKER M., İÇELLİ O.	Dose enhancement factors of some cancer drugs by Monte Carlo simulations	Radiation Effects and Defects in Solids	2025
Özşahin Toker M., Yavas K., Toker O., İçelli O.	Monte Carlo-based approach to determine effective atomic numbers of low-Z explosives in landmines	Radiation Effects and Defects in Solids	2025



Book Translations

AUTHOR	TITLE	PUBLISHER	YEAR
John D. Anderson <u>Çevirenler:</u> M. Adil Yükselen O. Ergüven Vatandaş	AERODİNAMİĞİN ESASLARI	Nobel Yayın Evi	2024

Projects

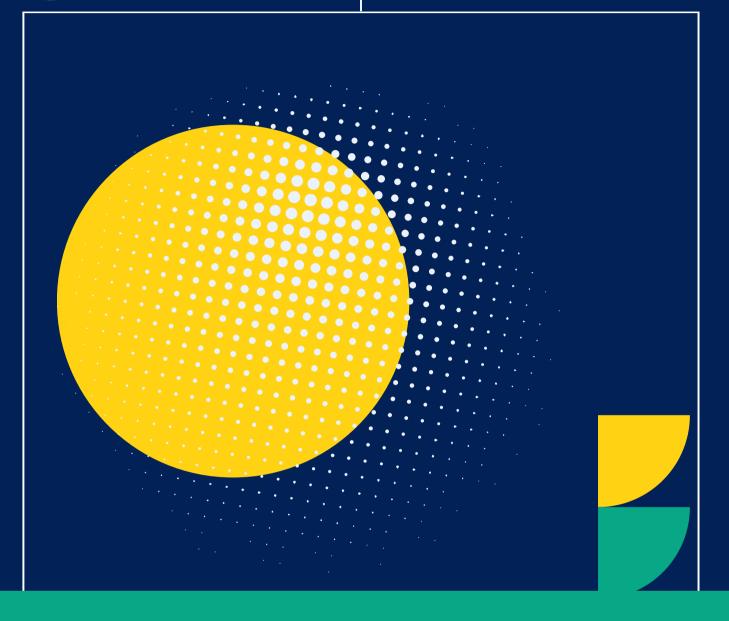
PROJECT	YEAR
İ <u>stanbul Gelişim Üniversitesi BAPUM destekli proje "Farklı Tasarımlarda İnsansız</u> Hava Araçlarının Modellenmesi (ÖOP-211020	2022-2023
TÜBİTAK 2209 Projesi: Dikey Kalkış ve İniş Özellikli Elektrikli Fan Motoru Tahrikli İnsansız Hava Aracı	2024

Awards

Aeronautical Engineering has won the "DEPARTMENT OF THE YEAR AWARD (UNIVERSITY)" twice in the BlueSky Aviation Awards held in 2021 and 2022.







EVENTS

EVENTS

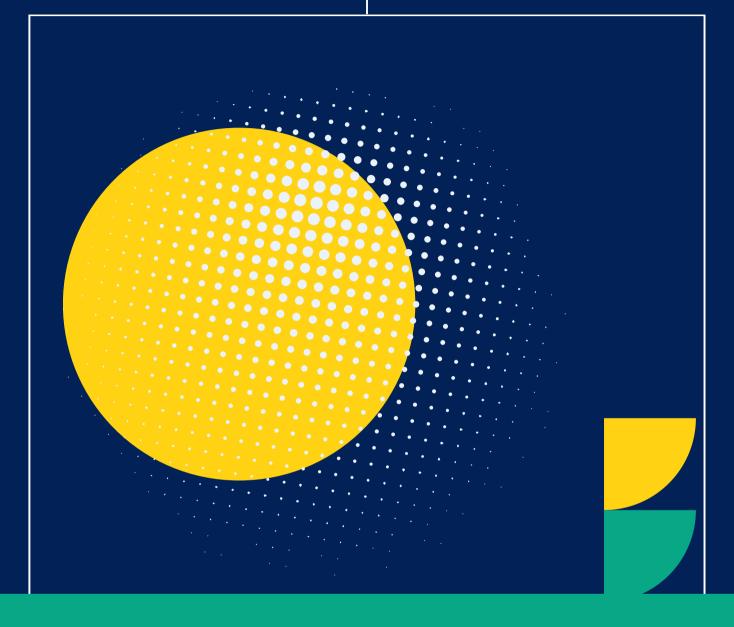
Technical Visit from the Department of Aerospace Engineering to Istanbul Natural Gas Combined Cycle Power Plant





Dr. Péter Ákos Szilassy from the University of Dunaújváros Met with IGU Aerospace Engineering Students





OUR GRADUATES

OUR GRADUATES

Ayberk Ermutuş

With their solution-oriented approaches and the addition of new faculty members every year, both the Department of Aeronautical Engineering and Istanbul Gelişim University have become increasingly dynamic. Over the past three years, I have taken part in rocket and UAV competitions. In addition to ongoing projects during my education, I am currently completing my internship in the defense industry. I have gained a clear understanding of how knowledge is acquired and how we can become well-equipped from our developmental years to the time we enter professional life. While mastering how to conduct research and develop engineering solutions, I have also achieved many successes in design through my drawings, gaining recognition in the fields I worked in. I would like to thank all the staff of IGU Aeronautical Engineering for their contributions to my achievements and success in reaching my goals.



Hüseyin Furkan Çelik



The engineering-focused undergraduate education I received at Istanbul Gelişim University in Aeronautical Engineering has been highly beneficial in enabling me to use the knowledge I gained in interdisciplinary studies—in other words, in integrating knowledge into different fields. Thanks to the opportunities provided by Gelişim University and my esteemed professors, I had the chance to carry out various projects. I completed my first mandatory internship at Ayjet Flight School located at Hezarfen Airport and voluntarily continued my internship there for a while. Later, I did an internship at the 2nd Air Maintenance Factory Directorate under ASFAT at the 12th Air Transportation Main Base. This internship gave me the opportunity to get to know military aircraft closely. In the final year of my undergraduate studies, I have been working part-time as a researcher at the Istanbul Gelişim University Technology Transfer Office.

Ece Kuzu

I have always been interested in airplanes since my childhood. I have always been curious about their systems and what enables such large, heavy structures to stay in the air. As Atatürk said, "The future is in the skies!"—this quote has always been a reference point for me. For this reason, I decided to pursue Aeronautical Engineering. I chose Istanbul Gelişim University because it is the most internationally accredited university in Turkey, recognized by aviation companies, and because the faculty of the Aeronautical Engineering Department is highly qualified. Based on the knowledge I gained from my esteemed professors at Istanbul Gelişim University, I participated in many projects. For the project that reached the Teknofest finals, Istanbul Gelişim University filed a patent application. I completed my first mandatory internship at Ayjet Flight School at Hezarfen Airport and worked part-time as a researcher at the Istanbul Gelişim University Technology Transfer Office. For the Spring 2023 internship term, I applied to Baykar Makine Sanayi Ticaret ve Sanayi A.Ş. and was accepted. I am currently continuing my internship at Baykar Makine Sanayi Ticaret ve Sanayi A.Ş.







FACULTY OF ENGINEERING AND ARCHITECTURE

SOFTWARE ENGINEERING

ACADEMIC FACULTY



Asst. Prof. Serkan GÖNEN Ph.D. Gazi University



Assoc. Prof. Mehmet Fatih TÜYSÜZ Ph.D. Gebze Teknik University



Asst. Prof. Şeyma ÇETİN Ph.D. Yıldız Teknik University



Asst. Prof. Zehra CİVAN Ph.D. Yıldız Teknik University



Res. Asst. Saim HATİPOĞLU



Res. Asst. Sevcan BULUT



Res. Asst. Ayşe ÇOBAN PİŞKİN



SOFTWARE ENGINEERING

Number of Students: 494

First Year of the Department: 2021

Number of Internship Days: 30+30=60

Aim of the Department

In Software Engineering, where rapidly advancing technology and developments in information technology are closely monitored, the goal is to equip students with the knowledge and skills necessary to adapt to developments in this field after graduation.



Some Courses

- Artificial Intelligence
- Software Project Management
- Cyber Security
- Machine Learning
- Encryption



SOFTWARE ENGINEERING

RESEARCH AREAS



Information Security and Reliability

Computer Vision

Cryptology

Artificial Intelligence, Machine Learning, and Pattern Recognition

Computer Networks

Hardware Security





SCIENTIFIC RESEARCHES



TOTAL

36

SCIENTIFIC__ RESEARCHES







- **12** Conference Papers
- 6 Projects



SCIENTIFIC RESEARCHES

AUTHOR(S)	TITLE	JOURNAL	YEAR
Onur F., Gönen S., Barışkan M. A., Kubat C., Tunay M., Yılmaz E. N.	Machine learning-based identification of cybersecurity threats affecting autonomous vehicle systems	Computers and Industrial Engineering	2024
Gönen S.	A methodical examination of single and multi-attacker flood attacks using RPL-based approaches	Computers and Industrial Engineering	2024
Görmüş A. F., Gönen S., Haşıloğlu A., Yılmaz E. N.	Evaluation of Machine Learning Models for Attack Detection in Unmanned Aerial Vehicle Networks	Turkish Journal of Mathematics and Computer Science	2024
Gönen S.	A Novel Approach for Detection of Cyber Attacks in MQTT-Based IIoT Systems Using Machine Learning Techniques	Journal of advanced research in natural and applied sciences (Online)	2025
Şentürk K., Gormus A. F., Gönen S., Barışkan M. A., Durmaz A. K.	Artificial intelligence-enhanced intrusion detection systems for drone security: a real-time evaluation of algorithmic efficacy in mitigating wireless vulnerabilities	Cluster Computing	2025
Ergen, M., Saoud, B., Shayea, I., El-Saleh, A. A., Ergen, O., Inan, F., Tuysuz, M. F.	Edge computing in future wireless networks: A comprehensive evaluation and vision for 6G and beyond	ICT Express	2024
Bilalov B., Zeren Y., Sadigova S., Çetin Ş.	On solvability in the small and Schauder-type estimates for higher order elliptic equations in grand Sobolev spaces (nonseparable case)	Applicable Analysis	2023
Mamedov E. M., Çetin Ş.	Interior Schauder-type estimates for m – th order elliptic operators in rearrangement-invariant Sobolev spaces	Turkish Journal of Mathematics	2024
Civan, Z., Simsek, G. G., Çinar, U. K.	What are the macroeconomic drivers of the asset returns of Turkish banks?	Technological and Economic Development of Economy	2023
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Çoban Pişkin A., Ozyurt F.	Kapsül Ağları Kullanılarak Gerçek ve Sahte Yüz Verilerinin Sınıflandırılması	Fırat Üniversitesi Mühendislik Bilimleri Dergisi	2023
Cevik T., Kucuk U., Ozceylan E., Çoban Pişkin A.	Human detection and tracking in low-resolution infrared images for smart home applications	International Journal of Natural Sciences Research	2025

BOOKS

AUTHOR(S)	BOOK & BOOK CHAPTER	YEAR
Dr. Öğr. Üyesi Serkan GÖNEN	Kritik Altyapı Güvenliği	2023
Dr. Öğr. Üyesi Serkan GÖNEN	Siber Güvenlik ve Yapay Zeka Bölüm 16	2023
Dr. Öğr. Üyesi Serkan GÖNEN	Örneklerle Uygulamalı C ve C++	2023
Dr. Öğr. Üyesi Serkan GÖNEN	Cyber Secutity in Space	2024

PROJECTS

AUTHOR(S)	PROJECT	YEAR
Dr. Öğr. Üyesi Serkan GÖNEN	Küçük Buluşlar Büyük Dünyalar Maraş Bilim Şenliği	2023
Dr. Öğr. Üyesi Serkan GÖNEN Dr. Öğr. Üyesi Nihal ALTUNTAŞ Dr. Öğr. Üvesi GÖKÇE KARACAYILMAZ Prof. Dr. NECMETTİN MARAŞLI	İstanbul Gelişim Üniversitesi Siber Güvenlik Akademisi	2023-2025
Dr. Öğr. Üyesi Serkan GÖNEN Arş. Gör. MEHMET ALI BARIŞKAN	İGÜ Siber Akademi	2023-2025
Dr. Öğr. Üyesi Serkan GÖNEN Arş. Gör. MEHMET ALİ BARIŞKAN Dr. Öğr. Üyesi KENAN ŞENTÜRK Öğr. Gör. KÜBRA ERDOĞAN Ärş. Gör. TÜNAY ACIMAN	PLC Cihazlarının Siber Güvenlik Açıklıklarının Yapay Zeka Destekli Analizi ve Uzman Sistem Yardımıyla Saldırı Tespiti	2024-2026
Dr. Öğr. Üyesi Serkan GÖNEN Arş. Gör. MEHMET ALİ BARIŞKAN	CyberInnovators	2024-2026
Dr. Öğr. Üyesi Serkan GÖNEN	TechnoIntelligance Academy	2025-2026





EVENTS



Research Highlights



First-year students in the Software Engineering Department at Istanbul Gelişim University successfully presented their first projects after an intensive period of study. The young software engineers showcased their innovative projects at a special event attended by their instructors and industry representatives.

Dr. Şeyma ÇETİN, one of the faculty members of the Faculty of Engineering and Architecture, Department of Software Engineering, and the coordinator of operational processes at Raymare Biotechnology Inc., has been honored with the 'Most Improved Woman Entrepreneur Award' within the scope of the GCIP - Global Cleantech Innovation Programme, jointly organized by TÜBİTAK and UNIDO.



Within the scope of the cyber security training project titled "Cybershield Innovators: Pioneering the Future of Digital Security," coordinated by Istanbul Gelişim University and supported by the European Institute of Innovation and Technology (EIT), a project meeting was held on June 17, 2025, in Düsseldorf, Germany, with the university's project partner, Proficiency Institute.



TOTAL NUMBER OF SCIENTIFIC RESEARCHES

research HIGHLIGHTS







- **286** Articles
- 125 Conference Papers
- 49 Projects
- **48** Books and Book Chapters
- 5 Patents





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0212 422 70 00

E MAIL mmf@gelisim.edu.tr