



**Istanbul Gelisim
Vocational School**



IGVS

Monthly E-Bulletin

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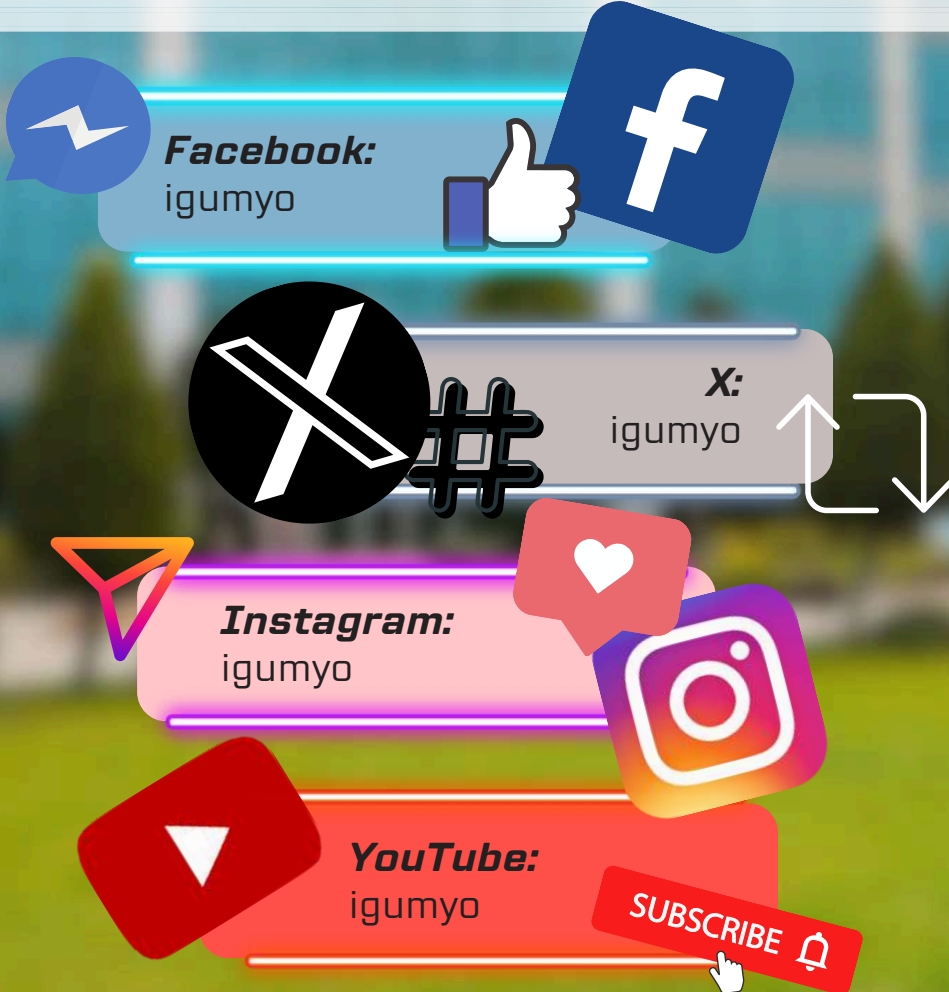
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Dear Young People,

Istanbul Gelisim Vocational School, which started its education life in 2008, started to publish a monthly E-Bulletin as of 2021. We are very happy to bring you the March issue of our e-bulletin and to share with you the developments in our Vocational School. I believe you will enjoy reading our bulletin and I present my greetings and respect with the hope of meeting you in a new issue.

You can follow all the developments in our Vocational School on our social media channels.

Director of IGVS
Assoc. Prof. Mehmet SOYAL



** IGVS E-Bulletin has been
prepared according to the Turkish
Higher Education Quality Council
(THEQC) criteria.*



LEADERSHIP

ACADEMICIANS FROM IGU ARE ON THE "BEST SCIENTISTS" LIST OF THE WORLD AND COUNTRIES!

Research.com, one of the world's leading research and academia portals, has announced the list of the "Best Scientists" of the world and countries. Istanbul Gelisim University academics were shown among the best scientists in Turkey and the world with their degrees in "Engineering and Technology", "Economy and Finance" and "Neuroscience".

Great success in the fields of "Engineering and Technology",
"Economics and Finance" and "Neuroscience"!

Istanbul Gelisim University, which is modern, developing, producing and advancing with an understanding of quality education, stands out with its science, technology and R&D studies. According to the list created on the basis of the D-index created for the purpose of measuring, evaluating and monitoring the performance of scientists in terms of scientific productivity. 3 academicians from Istanbul Gelisim University were included in the list of "Best Scientists" with their successful work.

Istanbul Gelisim University Rector Prof. Dr. Bahri Şahin ranked 17th among 47 scientists from Turkey and 4020th in the world in the field of Engineering and Technology.

Prof. Dr. Kemal Sıtkı Türker from IGU Faculty of Dentistry achieved an important success by being 4th among 6 scientists from Turkey and 5870th in the world.

Asst. Prof. Dr. Festus Victor from the Faculty of Economics, Administrative and Social Sciences of IGU was the only scientist from Turkey to be ranked in the field of Economics and Finance, and he was ranked 1183 in the world.





SCIMAGO
INSTITUTIONS
RANKINGS

SCImago 2024 results have been announced: IGU is in the top 5 in the field of research!

The results of "SCImago University Rankings 2024", which ranks the scientific research, innovation and social impacts of world universities according to SCOPUS publication and citation data, have been announced. Standing out with its work in research areas, Istanbul Gelisim University ranked 5th among Turkish universities in the field of research and 25th in all fields. It attracted attention with the results it received in the categories of Economy, Environmental Science, Business Administration, Energy, Social Sciences and Engineering.

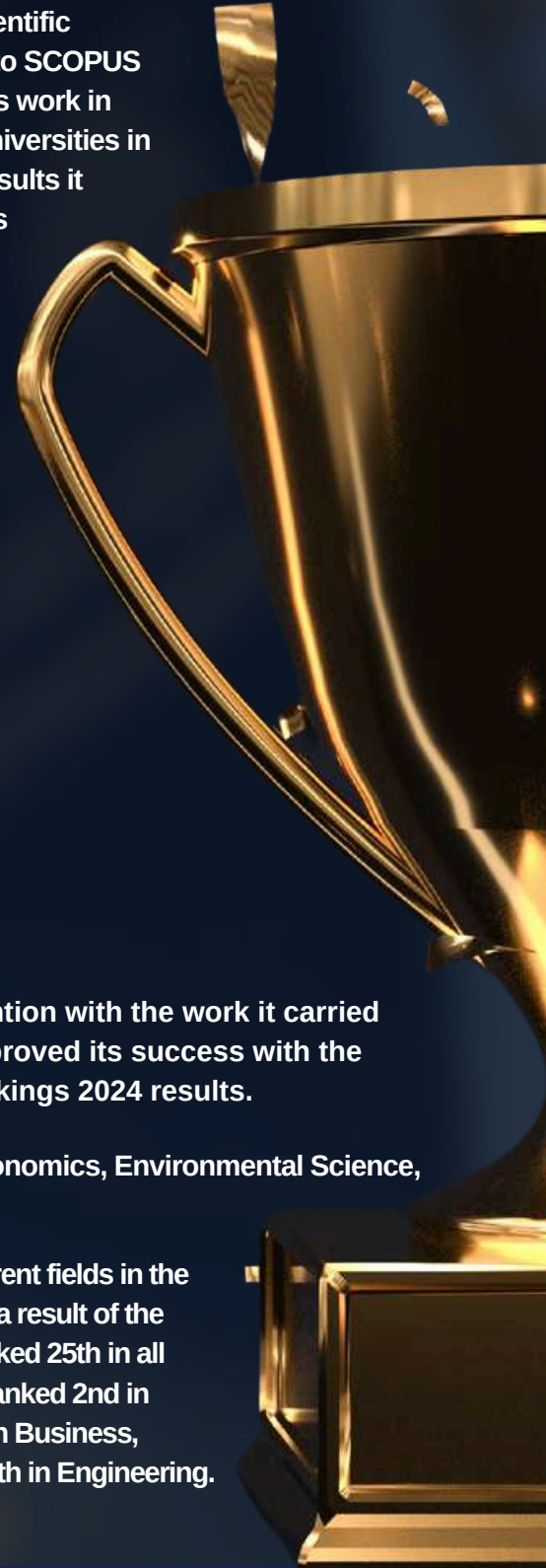
The results of "SCImago University Rankings 2024", which measures the social, scientific impact and innovation of universities around the world, have been announced. Aiming to give a general idea about universities by measuring their performance in terms of research, innovation and social impact, SCImago University Ranking helps students obtain information about a university's education quality, effectiveness and prestige.



Proceeding with the vision of "World University", IGU attracted attention with the work it carried out for its students and the opportunities it provided. It once again proved its success with the degrees it received in different fields in the SCImago University Rankings 2024 results.

Remarkable success among Turkish universities in the categories of Economics, Environmental Science, Business Administration, Energy, Social Sciences and Engineering!

Istanbul Gelisim University draws attention with its research studies in different fields in the 2024 results of SCImago, one of the university evaluation organizations. As a result of the evaluation made on SCOPUS research data, Istanbul Gelisim University ranked 25th in all fields and 5th in the field of research among Turkish universities. IGU also ranked 2nd in Economics, Econometrics and Finance, 4th in Environmental Science, 7th in Business, Management and Accounting, 8th in Energy, 13th in Social Sciences and 14th in Engineering.



IGU achieved great success by being in the 1001-1200 rankings in THE World Universities Ranking 2025



Istanbul Gelisim University has achieved great success by ranking in the top 500 in the field of Research Quality in the list of THE World Universities Ranking 2025, which includes many well-established institutions such as Oxford University, Massachusetts Institute of Technology (MIT) and Harvard University.

Times Higher Education (THE), the London-based international higher education rating agency, announced the World University Rankings for 2025. The ranking was evaluated with the criteria of Education, Research Environment, Research Quality, Industry and International Outlook between 2019-2023. In this process, those who met various criteria from approximately 40,000 universities worldwide were included in the ranking. While there are more than 2,000 institutions in this ranking, Türkiye has achieved a historical success by being represented by 91 universities. In addition, 12 Turkish universities were included in the top 1000.

IGU, which achieved a significant success in the World Universities Ranking 2025, was ranked in the 1001-1200 in the world in general rankings, being 13th among Turkish universities and 8th among foundation universities.

IGU, which ranks 473rd in the world with Research Quality field, was listed as the 3rd among Turkish universities and as the 2nd among foundation universities. In the field of International Outlook, it ranked 596th in the world, and 5th in Türkiye. The success of IGU in the rankings shows the university's commitment to high-quality education and research and its compliance with international standards. IGU, which advances to the vision of the world university, takes firm steps towards becoming a globally recognized university by supporting its research activities while providing an innovative and contemporary education to its students.



"This achievement is not only a ranking; it is also a reflection of our understanding of academic excellence and innovative education"

Istanbul Gelisim University Rector Prof. Bahri Şahin: "As Istanbul Gelisim University, we are proud to be among the top 500 universities in the field of Research Quality in the Times Higher Education (THE) World Universities Ranking 2025. The fact that we are ranked 8th among the foundation universities in Turkey by being in the 1001-1200 in the general rankings in the international arena is a result of the intense efforts and dedication we carry out together. This achievement is not only a ranking; it is also a reflection of our understanding of academic excellence and innovative education. Our vision is to provide our students with the highest quality education, making them individuals who can compete on a global level. We aim to be a pioneer in knowledge production with our studies in the field of research and innovation. I would like to thank all our academicians and stakeholders of our university who contributed to achieving this success. We will continue to work to achieve many more achievements that will strengthen the presence of IGU in the international arena by continuing to move forward with determination to achieve larger goals in the future."

Commenting on Türkiye's success in the Times Higher Education (THE) 2025 World University Rankings, THE Global President Phil Baty stated, "The increase in the number of Turkish universities in the top rankings is an indication that Türkiye has made rapid progress in terms of research and education quality. It is really great to observe this and we think it will go higher in the rankings of universities."

IGU has risen 23 places in the overall ranking!

According to the results announced by Round University Ranking (RUR), one of the institutions ranking universities in the world, Istanbul Gelisim University rose 23 places in the world with 1099th. IGU, on the other hand, ranked 48th among universities in Türkiye and 18th among foundation universities.



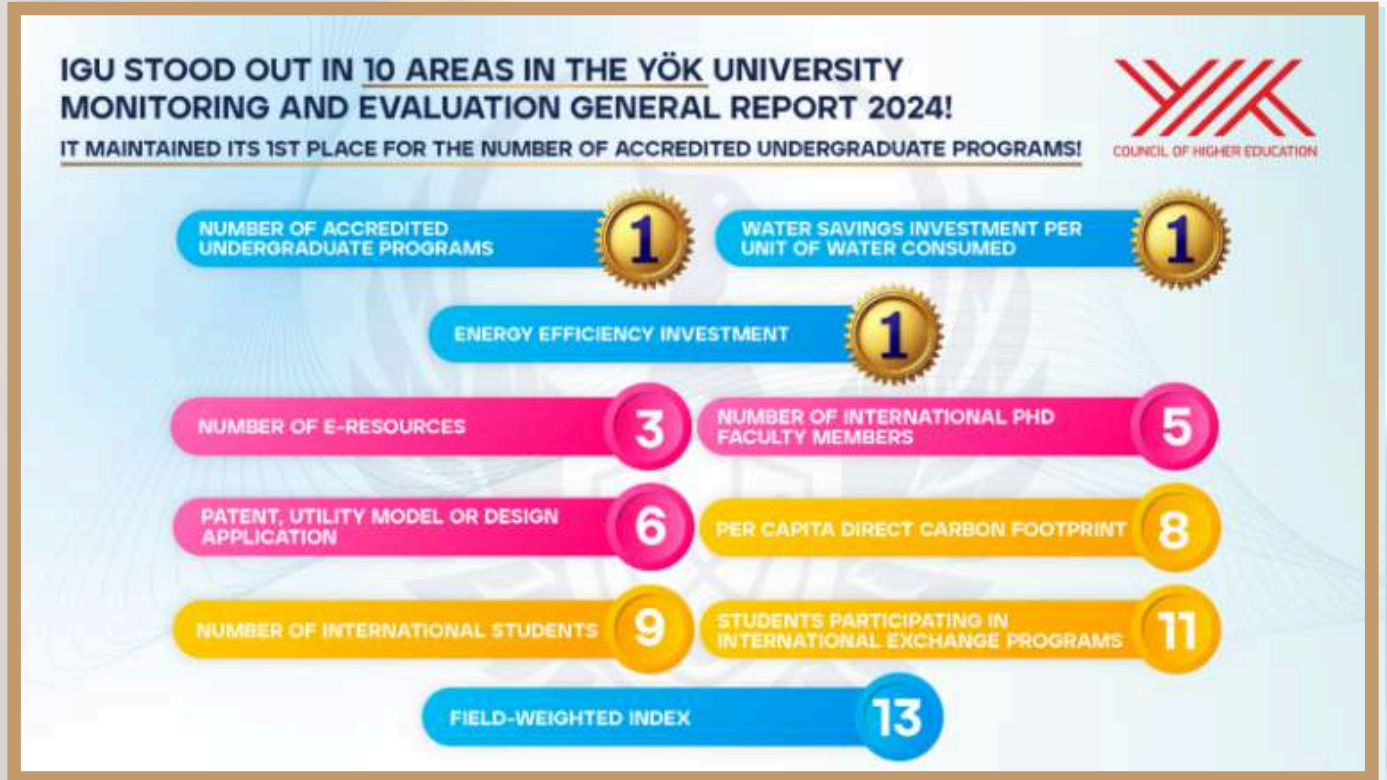
Continuing to progress with the vision of "World University", Istanbul Gelisim University (IGU) has achieved a significant success in the international arena and increased its place in the RUR 2024 World Universities Ranking by 23 steps compared to last year. According to the list published by the RUR Rankings Agency for 15 years, IGU ranked 48th in Türkiye and 18th among foundation universities in Türkiye this year.

Round University Ranking (RUR), one of the prestigious organizations ranking world universities, announced the results of 2024. RUR, which evaluates the leading universities around the world according to a total of 20 indicators under the headings of teaching, research, international diversity and financial sustainability, bases its ranking on certain criteria. When determining the scores of universities, teaching and research dimensions are reflected in the total score as 40 percent, and international diversity and financial sustainability indicators are reflected in the total score as 10 percent.

According to the ranking explained in the indicators of Teaching, Research, International Diversity and Financial Sustainability, IGU ranked 1113th in the world in the 'Teaching' indicator and 15th among foundation universities in Türkiye. While maintaining its place in the 'Research' indicator last year, it ranked 1017th in the world ranking and 16th among foundation universities by increasing its score. IGU, which achieved global success with its internationalization strategies, continued its success in the 'International Diversity' indicator and ranked 730th in the world and 16th among the foundation universities in Türkiye, while it ranked 1106th in the world and 16th in the foundation universities in the 'Financial Sustainability' indicator.

YÖK evaluated universities: IGU ranked 1st in 3 categories

The "University Monitoring and Evaluation General Report-2024" prepared by the Council of Higher Education (YÖK) was published. Istanbul Gelisim University (IGU), which stood out in 6 fields last year, stood out in 10 fields this year with its studies. While IGU was at the top with its studies in the field of water saving investment and energy efficiency investment per the amount of water consumed in the "Sustainability" category, which is one of the evaluations made by the Council of Higher Education, it maintained its 1st place as the university with the most accredited undergraduate programs.



The "University Monitoring and Evaluation General Report-2024", in which the Council of Higher Education evaluated 201 universities in Turkey according to 64 different indicators, was published. Istanbul Gelisim University (IGU) ranked 1st in the university category, where the use of energy efficiency investment and water saving investment per the amount of water consumed was the highest. IGU, which took firm steps towards internationalization, maintained its 1st place as the university with the most accredited undergraduate programs among both state and foundation universities.

IGU entered the rankings in 10 different indicators in 4 different categories

Istanbul Gelisim University, which proceeds with the vision of "Research University ", ranked 6th in the category of "applied patent, useful model or design" in the field of " Research-Development, Project and Publication" according to 2024 data, and 13th in the category of "Field-weighted citation impact". In the "University Monitoring and Evaluation General Report-2024"; IGU, which is the 1st university with the most accredited undergraduate programs in the field of "Education and Training", ranked 3rd in the "Number of E-Resources" category.

Advancing with the vision of the world university, IGU ranked 5th in the category of "Number of international doctoral academicians employed" in the field of "Internationalization", 9th in the category of "Number of international students" and 11th in the category of "Number of students participating in exchange programs".

Success in 3 different indicators in the sustainability field!

Istanbul Gelisim University, which attaches importance to sustainability studies in all areas, especially environmental sustainability by adopting the "Sustainable Development Goals", once again emphasized the importance it attaches to the practices for the effective use of natural resources as the 8th in the category of "Direct carbon footprint per capita" as well as its first place in the categories of "energy efficiency investment use" and "water saving investment per amount of water consumed" in the field of "Sustainability" in the 2024 report.



"We act with a strong spirit of cooperation to shape the future"

Istanbul Gelisim University Rector Prof. Bahri Şahin underlined the success of IGU in 10 fields in the University Monitoring and Evaluation General Report-2024, which maintains its 1st place as the university with the most accredited undergraduate program among both state and foundation universities. Prof. Şahin also added: We are proud of the studies we have carried out on many issues such as rapidly developing technology, climate and environmental problems, global conflicts, changes in social needs, employment and economic crises, which YÖK President Prof. Erol Özvar said these are the issues that higher education will seek solutions in the coming period. As a university, we adopt the United Nations Sustainable Development Goals with the aim of leaving a more livable world for future generations. Sustainability is critical not only for the world, but also for humanity, and achieving this goal is a shared responsibility of all of us. In this regard, we aim to develop innovative solutions and increase social benefit by giving special importance to our education and research activities. We act in a strong spirit of cooperation to shape the future."

T.R. Presidency Investment Office visited İGÜTEKMER!

Turkish Presidency Investment Office officials visited Istanbul Gelisim University Technology Development Center (İGÜTEKMER) and met with entrepreneurs. Within the scope of the visit, detailed information was shared about the contributions and supports provided by the Investment Office to the investment ecosystem in Türkiye and the work of entrepreneurs developing technology and innovation-oriented projects was examined on-site.

Authorities evaluated the prototypes developed by listening to the projects of entrepreneurs operating in critical sectors such as biotechnology, electricity-electronics, machinery and software. Contributing to Turkey's technology-based entrepreneurship ecosystem, İGÜTEKMER paves the way for the commercialization of projects and meeting with investors by supporting innovative ideas.



Featured Projects

During the visit, many projects within İGÜTEKMER came to the fore. While the kits developed on molecular biology and genetics attracted attention in the field of biotechnology, the innovative electric communication and autonomous vehicle project for private and general purposes in the field of electricity-electronics was appreciated.

In the field of software, a solution platform and game project that strengthens the interaction between customers and brands came to the fore. While these projects, which aim to increase the user experience in the digital world, were nominated to make a difference in their sectors, the development of three-dimensional metal printers in the field of machinery was also appreciated.

While this important visit contributed to the meeting of entrepreneurs with national and international investment opportunities, it revealed the potential of the projects developed at İGÜTEKMER.



Artificial Intelligence Supported Intelligent Body Analysis System from IGMYO students: METABODY

Istanbul Gelisim Vocational School (IGMYO) students have developed an innovative project that combines personal health and development tracking with technology. "Metabody: Artificial Intelligence-Assisted Intelligent Body Measurement and Development Tracking System for Personal Body Analysis" provides an intelligent platform that allows individuals to analyze their physical changes.

The project was developed by IGMYO "Our Goal is Progress" team, consisting of Computer Technology Program students Cemil İlyas, Barış Köse, Aslı Türk and project consultant Electronic Technology Program Lect. Ali Çetinkaya. With this project, which integrates technology with human health, the team aims to make personal development processes more efficient and enable individuals to get to know themselves better.

Metabody aims to provide users with the opportunity to follow the future-oriented bodybuilding process in the smart digital environment through artificial intelligence. At the same time, the project aims to contribute to research in the field of artificial intelligence by offering solutions on image processing and unbalanced data problems.

With the project "Metabody: Artificial Intelligence-Assisted Intelligent Body Measurement and Development Tracking System for Personal Body Analysis", IGMYO students, who also applied to TEKNOFEST 2025 University Students Research Project Competitions (2242) - Social Innovation and Entrepreneurship category, aim to create a technology-based transformation in the field of healthy living with Metabody. The system aims to provide an informed approach to sports and nutrition processes by enabling individuals to better understand their own bodies.



Ezel Akay met with cinematographers at the "Masters" event

The Masters event series, organized by Istanbul Gelisim University (IGU) Faculty of Fine Arts, Department of Radio, Television and Cinema, continues to bring together the important names of the cinema world with students. Ezel Akay, the experienced director, producer and actor, was the guest of the event, which previously hosted master names such as Bülent Sağlam and Ercan Kesal.

Asst. Prof. Ali Kemal Çipe was the moderator of the event, which took place with intense participation at IGU Firnas Auditorium. Ezel Akay shared his experiences in the cinema sector and presented guiding information to the students. Emphasizing the important points on the scenario development process, directing preparations and the requirements of being successful in the sector, Akay also conveyed his insights on the understanding of cinema and his career.

Valuable information on cinema by Ezel Akay

During the event, many important issues related to cinema were discussed. While explaining the differences between musical cinema and musical cinema, Akay shared his views on historical films with the participants. Answering students' questions, the master director offered young filmmakers suggestions on how to improve themselves in the industry.



At the end of the event, Asst. Prof. Ali Kemal Çipe thanked Ezel Akay for sharing valuable knowledge and experience with the students and presented a plaque. The meeting, which ended with a photo shoot, was greatly appreciated by the participants.

Masters event series continues

The Masters event series, which continues to bring together experienced names of the cinema world with students, will continue with new guests throughout the spring semester. You can follow official social media accounts of the Faculty of Fine Arts and the Department of Radio, Television and Cinema for current announcements and event program.



Istanbul Gelisim Vocational School started education in 2008 with 9 programs and became a school that forms the core of Istanbul Gelisim University. It has shown rapid development since its establishment; it has reached 19 departments, 37 programs and 10,630 students. Evening education is provided in 21 of 37 programs.

Istanbul Gelisim Vocational School continues its educational activities with its experienced and strong academic staff. In addition to the permanent instructors, by employing the leading names of the sector part-time, the students are given the opportunity to learn their practical experience in business life.

Istanbul Gelisim Vocational School, which has moved to its new campus as of the Fall Term of the 2017-2018 Academic Year, has a total of 22 workshops, including Aircraft Maintenance Workshops, Mock-Up, Kitchen, Electric, Construction, Automotive, Serigraphy, Ceramics and Fashion workshops, in its new campus so that students can apply their theoretical education practically. Besides it offers a field of application with 7 Computer Labs, one of which is MAC.

Our School's Aircraft Technology Program has the Recognized School Approval Certificate from the General Directorate of Civil Aviation (SHGM) as well as the Flight Operations Specialist Training (Dispatcher) Authorization Certificate from the DGCA. Apart from our two programs authorized by DGCA, the licensing processes for the Approved Cabin Crew Basic Training Organization Certificate for Civil Aviation Cabin Services Turkish and English Programs and the Approved Ground Handling Training Organization Certificate for Civil Air Transport Management Turkish and English Programs are continuing at the DGCA.

Istanbul Gelisim Vocational School students can benefit from the educational and social activity opportunities available in all campuses of our university without interruption.

OUR MISSION

To equip our students in all the programs with innovations in their fields, to keep them informed of current developments, to keep this process alive with scientific activities, and to support the scientific studies of lecturers. To be the solution for the need of qualified intermediate staff with the qualifications required by the sector, to have assimilated the latest technological developments, to have developed a practical side.



OUR VISION

Our vision is to be one of the world's leading vocational schools with qualified academic staff and all the programs recognized by international institutions and organizations, and to train students who are demanded by the market and who are all employed after graduation.

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EDUCATION



NEWS FROM IGVS

POSTER EXHIBITION: COMPARATIVE PARATEXTUAL AND TEXTUAL ANALYSIS OF (MODERN) LITERARY CLASSICS

The poster exhibition titled “Comparative Paratextual and Textual Analysis of (Modern) Literary Classics” was prepared under the coordination of Lect. Fatma Balta, the academic staff of the Applied English Translation Program, with the contributions of our students Aleyna Karaca, Buse Kılıç, Emine Saykılı, Eylül Yaren Kaya, Fatima-Ezzahra Boutmazgine, Melisa Günay, Meryem Sakkabaşı and Sude Demirci who took the ICP271 Literary Translation elective course in the Fall Semester 2024-2025. The exhibition took place in the foyer area on the ground floor of IGVS between March 3-7, 2025. The posters aim to reveal how canonical literary works are presented and interpreted in different Turkish translations through paratextual elements (front and back covers, book titles, book titles, prefaces, translator's notes) and textual elements (cultural elements, idioms, neologisms, humorous language and language varieties). By comparing multiple translations from different periods, our students examined how translations affect reader perception, cultural adaptation and the reception of (modern) classical literature in Turkey. They also revealed the translation strategies adopted by translators to convey the meaning, tone and cultural context of the text to the target audience.



Erasmus+ Agreement Renewed

As the Maritime and Port Management Program of IGVS, our bilateral agreement has been renewed as of March 2025 due to LMA Academy's integration into Vilnius Gediminas Technical University (VILNIUS TECH), with which we have an existing bilateral agreement.

This new Erasmus+ Agreement, made possible through the efforts of Ocean-Going Master Mariner and Assistant Professor Ramazan AÇIKGÖZ, who serves as the Program Coordinator and Erasmus Coordinator and has previously participated in teaching activities at the respective university, will create unique opportunities for our students in terms of accessing to knowledge, internationalizing, and expanding educational opportunities.



IGVS Occupational Health and Safety Program academician Asst. Prof. Dr. Kaan KOÇALI participated in the 24-hour “Management of Fire Risks in Workplaces Training” organized by the Istanbul Chamber of Industry between 15.10.2024 - 14.01.2025 and was awarded a Certificate of Achievement.



IGVS Occupational Health and Safety Program academician Asst. Prof. Dr. Kaan KOÇALI participated in the EU LEADER Approach (Local Development) Awareness Raising and Information Module-1 Training organized by the Leader (Local Development) Community Association on 24.02.2025 and was awarded a Certificate of Participation.



IGVS March Appointments



Asst. Prof. Mustafa TEMÜR has been appointed to the “Assistant Professor” position in the Automotive Technology Program of our University, Istanbul Gelisim Vocational School.

Asst. Prof. Kenan AKPINAR has been appointed to the “Assistant Professor” position at our University’s Istanbul Gelisim Vocational School, Marine and Port Management Program.

Lect. Esen TURUNÇ has been appointed to the "Lecturer" position in the Computer Technology Program of our University's Gelisim Vocational School.

Lect. Nurgül YÜZBAŞIOĞLU USLU has been appointed to the "Lecturer" position in the Computer Technology Program of our University's Gelisim Vocational School.

Lecturer Esen TURUNÇ has been appointed to the position of “Lecturer” in the Computer Aided Design and Animation Program at our University’s Gelisim Vocational School.

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R & D

IGVS Electronics Technology Program Lecturer Ali ÇETİNKAYA and IGVS Computer Technologies Program 2nd-year students Cemil İLYAS, Barış KÖSE, and Aslı TÜRK participated in the 6th International Congress on Engineering and Sciences. The students' study titled "Analysis Operations on Image Data Sets with Artificial Intelligence Techniques: Understanding Unbalanced Data Problems and Solution Suggestions," which they conducted within the scope of the BLP262 Artificial Intelligence course in the 2024-2025 Fall semester, was accepted for an oral presentation at the congress.

6. ULUSLARARASI MUHENDISLIK VE FEN BİLİMLERİ KONGRESİ

YAPAY ZEKA TEKNİKLERİ İLE GÖRÜNTÜ VERİ SETLERİ ÜZERİNDE ANALİZ İŞLEMLERİ: DENGESİZ VERİ PROBLEMLERİNİN ANLAŞILMASI VE ÇÖZÜM ÖNERİLERİ¹

Cemil İLYAS¹  , Barış KÖSE¹  , Aslı TÜRK¹  , Ali ÇETİNKAYA² 

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Programı, İstanbul / Türkiye*

Öz: Yapay Zeka (YZ) teknikleri, görüntü işleme uygulamaları ile bütünleştiğinde,

The Full Text of the Proceedings of the Web Design and Coding Program Students were published in the International 10th Socrates Health, Engineering and Applied Sciences Congress booklet.

Within the scope of the System Analysis and Design course taught by Lect. Çisem YAŞAR, academican of IGVS Web Design and Coding Program, the studies of the students were accepted and deemed worthy to be presented at the INTERNATIONAL 10TH SOCRATES HEALTH, ENGINEERING AND APPLIED SCIENCES CONGRESS and they were entitled to receive a certificate of participation. At the same time, the full text of the studies prepared was published in the congress booklet.

The information of the full text papers is as follows;

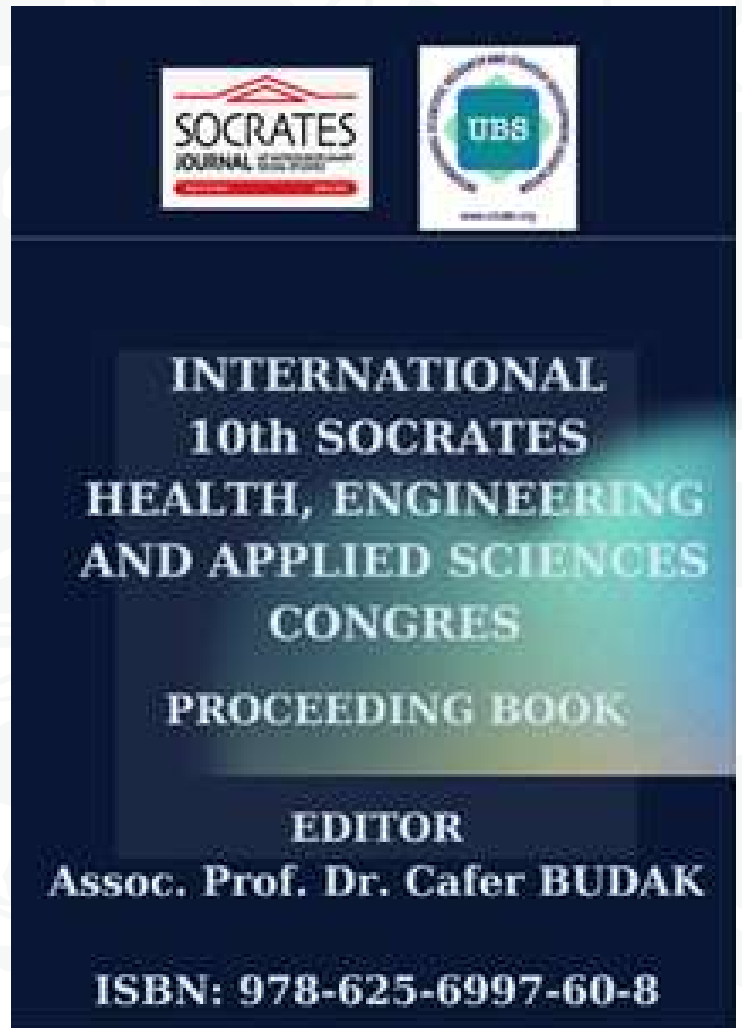
- Lect. Çisem Yaşar, Abdulkadir Kaya, İsmail Hız and Ozan Eren Kaya - "Web-Based Education Platform Development: System Analysis And Design"

In this study, a web-based education platform is proposed where individuals can follow the course content, take notes on important points and exhibit their projects.

- Lect. Çisem Yaşar, Arda Ballıkaya, Eray Ertan and Yusuf Türölü - "Design And Analysis of a Manageable Web-Based System For The Hairdresser Services Sector"

In this study, a manageable web-based system is proposed for businesses operating in the hairdressing services sector.

We congratulate our students for this important achievement and wish them success in their future studies.



Emrah ÖZCAN, lecturer at IGVS Applied Russian Translation Program, took part as an author in the book “Semantics Research Areas and Boundaries” published by Paradigma Akademi under the editorship of Prof. Dr. Zeynep BAĞLAN ÖZER and Asst. Prof. Dr. Hanife ERDOĞAN YAŞARSOY. Özcan is the author of the chapter titled “Analyzing the Main Images in Belarusian Ritual Songs Sung During Seasonal Transition Periods”.

ANLAMBİLİM

ARAŞTIRMA ALANLARI VE SINIRLARI

Editorler

Prof. Dr. Zeynep Bağlan ÖZER
Doç. Dr. Hanife ERDOĞAN YAŞARSOY



The full-text paper titled "Dynamic Modeling of Micro Turbojet Engine Based on Experimental Data Using Regression Method" was orally presented by IGVS Aircraft Technology Lecturer Hamza Ezgin at the 7th International Conference on Advances in Mechanical Engineering.



The TUBİTAK 2209-A – University Students Research Project titled “Identification of the Most Commonly Used Chemicals and Hazardous Substances in Workplaces Operating in the Istanbul Beylikdüzü Organized Industrial Zone and Investigation of Basic Occupational Health and Safety Conditions for Selected Substances within the Scope of the Reach Directive” (Project No: 1919B012335537), supervised by Assistant Professor Kaan KOÇALI of the Occupational Health and Safety Program at IGVS, with program students Kadir Cihan Baş as the project coordinator and Mehmet Büyükkaya as the researcher, was successfully completed on March 22, 2025.

IGVS Food Technology Program academician Lect. Dr. Kübra SAĞLAM's article titled “Prevalence, antibiotic resistance, and biofilm formation of coagulase-positive staphylococci in Izmir Tulum Cheese” was published in the “International Journal of Agriculture Environment and Food Sciences”.

<https://dergipark.org.tr/en/pub/jaefs/issue/90253/1597915>

SOCIAL CONTRIBUTION



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Impact of Global Warming on Hydroelectric Power Plants

Lect. Funda Ateş
Technology Of Hybrid And Electric Vehicles

Various sources of clean renewable energy are used around the world. Hydroelectric power stands out among these sources because it provides environmentally friendly and clean energy. The majority of hydropower investments are funded from domestic resources and have short commissioning and decommissioning times. In addition, it can be commissioned within a few seconds on demand and, since it does not use any fuel, it does not release harmful wastes into the environment. Thanks to these advantages, Hydroelectric Power Plants (HPPs) stand out as a preferable renewable energy source. The lifespan of HPPs can be up to 75 years, which is three times the lifespan of a thermal power plant. Furthermore, the lifespan of HPPs can be extended by carrying out renovation works.





HPPs are structures that collect water and convert the accumulated water into energy with the help of turbines. HPPs, which have a large percentage of energy production, are directly affected by climate change. Temperature increases and precipitation decreases that occur with climate change also affect the energy produced in HPPs. Understanding and effectively controlling seasonal fluctuations is vital to maximize the efficiency of hydroelectric facilities and guarantee adequate and regular electricity supply all year round. Monthly total precipitation, flow and power generation data directly affect the electricity production of HPPs. When the flow rate and flow rate reaches its highest level, energy generation also reaches its highest value. Recently, when the increasing precipitation in our country is analyzed parametrically, an increase in the electricity generation of large capacity HPPs has been observed.



Extreme weather/climate conditions caused by global climate change cause significant losses in electricity generation. Efficiency losses in power generation systems seriously harm Turkey's energy supply security and economy, especially considering the country's high level of dependence on energy imports. It is not possible to design every power plant to withstand all possible events at the same time, but the impact of extreme climate events can be mitigated. We strongly recommend that the concept of resilience is immediately taken into account when designing new power plant investments and adapting existing plants to make them more resilient to sudden changes in climate. Resilience must be at the top of the energy agenda to increase security of supply and reduce dependence on external resources.

Lect. Kübra ERDOĞAN
Mechatronics

Mechatronics Program Conducted a Technical Visit to SMC Turkey Automation Inc.

As the Mechatronics Program of Istanbul Gelisim Vocational School, we organized a technical visit to SMC Turkey to enable our students to closely follow industry innovations and apply their theoretical knowledge in practice. SMC, one of the leading companies in industrial automation and pneumatic systems, provided us with a comprehensive training session, both theoretical and practical.

In the first part of our visit, a theoretical training session was held in the conference room by Mr. Adem, an official from SMC Turkey. During this session, our students gained in-depth knowledge about the use of pneumatic components (valves, cylinders, compressors etc.) in mechatronic systems, the impact of smart automation solutions on production processes and the future trends in the industry.



Then, our students were divided into two groups to enhance the effectiveness of the practical training. During this practical training session:

- The fundamental components of pneumatic technology were introduced
- The role of sensors and actuators in industrial automation systems was explained through practical applications
- The working principles of PLC-controlled systems were examined
- Students actively participated in hands-on applications, gaining valuable experience and improving their practical skills.

This technical visit was highly beneficial and inspiring for our students. Observing industrial automation systems, which form a cornerstone of the mechatronics discipline, on-site broadened our students' professional perspectives.

We extend our gratitude to the SMC Turkey team, especially to Mr. Adem, who took the time to share his valuable knowledge with us. As the Mechatronics Program, we plan to continue organizing such technical visits to support our students' professional development.

Asst. Prof. Duygu ÇELİK
Banking and Insurance

The Rise of Fintech and Its Impact on Traditional Banking

In recent years, the financial technology (fintech) sector has grown rapidly and begun competing with traditional banking. As an industry that has emerged with the digitalization of financial services and offers user-friendly solutions, fintech has fundamentally transformed the perception of banking services and the customer experience.



What is Fintech?

Fintech defines the integration of financial services with technology. It is a sector that operates across a wide range of areas, from payment systems and digital wallets to loan processes and investment platforms. Fintech companies use technology to enable users to conduct banking transactions faster, more easily, and at a lower cost. These innovative solutions aim to overcome the limitations of traditional banking, such as high fees, long processing times, and accessibility challenges. A study by the World Economic Forum (2020) states that the fintech sector is growing rapidly due to its differences from traditional banking and the efficiency gains it provides (World Economic Forum, 2020).

The Impact of Fintech on Banking

Low-Cost and Fast Transactions: Fintech companies have made traditional banking services more competitive, particularly by offering low-cost solutions in areas such as payment transactions and money transfers. For example, international money transfers made through a fintech application can be significantly cheaper than the high transaction fees charged by banks. This has led traditional banks to reconsider their service fees. A report by McKinsey & Company (2021) highlights that fintech has a great potential to reduce banking fees and increase transaction speed (McKinsey & Company, 2021).

Inclusivity and Accessibility: Fintech has increased access to banking services, particularly in developing regions. Many people who have limited access to financial services can open accounts, obtain loans, and make investments through mobile applications provided by fintech solutions. This presents a great opportunity for serving populations that traditional banks struggle to reach. According to the report of Accenture (2019), fintech applications have had a significant impact on financial inclusion, particularly in developing countries (Accenture, 2019).

Innovative Products and Services: Fintech has introduced new perspectives to the industry with innovative products such as personal finance management, microloan, digital wallets, and smart contracts. Banks have been forced to adopt these new products and develop their own digital solutions to meet customer expectations. According to the report by EY (2020), fintech accelerates the digital transformation process of banks, enabling the launch of more flexible and customer-oriented products (EY, 2020).

Artificial Intelligence and Data Analytics: Fintech companies enhance customer experience by using artificial intelligence (AI) and data analytics. AI-powered chatbots allow customers to perform banking transactions 24/7 while also reducing the workload of bank employees. Additionally, applications that provide personalized recommendations based on users' spending habits have been developed thanks to data analytics. Traditional banks have had to accelerate their digitalization processes and invest in these technologies to remain competitive. A report published by Deloitte (2021) highlights that banks are rapidly increasing their investments in AI and data analytics and that these technologies are being effectively used in areas such as customer relationship management and fraud detection (Deloitte, 2021).



The Integration of Fintech and Banking in the Future

With the impact of fintech, the banking sector will become more digital, efficient, and customer-oriented. In the future, the solutions provided by fintech companies and the strong financial infrastructure of banks may come together to create a more secure and comprehensive financial ecosystem. The hybrid model, where banks and fintech companies collaborate, holds the potential to offer more innovative and personalized services to customers. A report published by PwC (2021) highlights the role of fintech in the digital transformation process of banks and the impact of these collaborations on the sector (PwC, 2021).

The rise of fintech has become a key factor in transforming traditional banking. Fintech companies, with their speed, low cost, and customer-friendly solutions, have changed the sector and driven banks to embrace digitalization. This digital transformation process has not only increased the competitive power of banks but also enabled them to provide better services to customers. In the future, banks and fintech firms are expected to merge to create a more efficient and secure financial environment.

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WHO ARE WE?

GastroArt Club aims to enable its member students to learn about the food and beverage culture through actual, auditory and visual ways, while raising their intellectual levels and having a fun time.

Contributing to the development of human values is among the sub-objectives of the activities. Their development is carried out in a sustainable, environmentalist and innovative framework within the framework of the GastroArt Club vision.

The organization creation process of the GastroArt Club activities teaches and develops the features such as teamwork, creating a work flow chart, taking responsibility, and planning ability, which will be required as a desired feature in the business life of the club member students after graduation.

With more than 500 club members, GastroArt has organized many quality events and supported the activities of various clubs.

Among the events held so far, it has successfully carried out social responsibility projects, workshops, and interviews with the leading brands in their field.

All activities are carried out with great care and professionalism. In this context, it is carried out with the support and follow-up of the club's advisor and approval from the HCS, the unit to which the club is affiliated.

Anyone who is a student of Istanbul Gelisim University can join the GastroArt Club. The official account of the club is @gastroartigu and the e-mail address is gastroartigu@gmail.com.

OUR STAKEHOLDERS



TURKISH AIRLINES



EKOLOFOOD





SİVİL HAVACILIK
GENEL MÜDÜRLÜĞÜ

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