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OUR REPUBLIC



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ISTANBUL GELISIM VOCATIONAL SCHOOL **VOCATIONAL SCHOOL BULLETIN**

October 2023

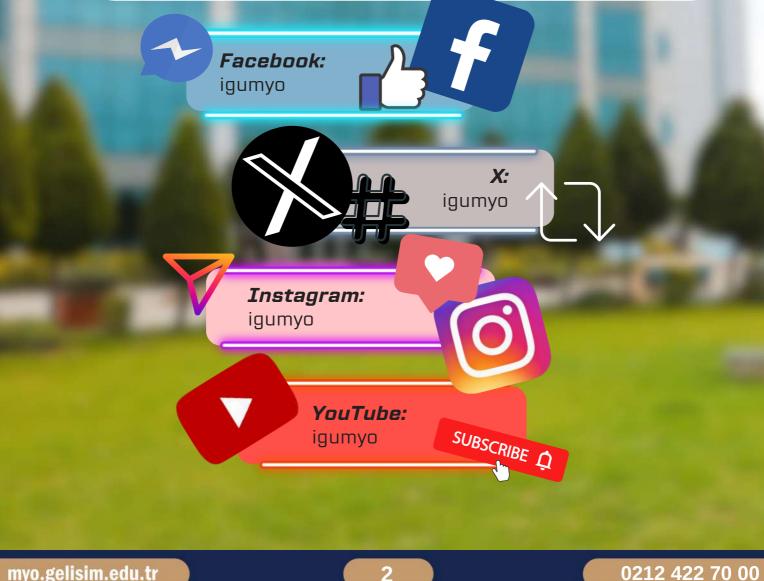
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Dear Young People,

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 October 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. Lokman KANTAR





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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 Sitki 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.



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IGU's Great Success in TUBITAK 2023 Competency Map Report

Istanbul Gelisim University took place in 17 of 21 main research areas and 62 of 132 subresearch areas in the TUBITAK 2023 competency map. IGU has come to the fore among Turkish universities in terms of both quality and research intensity in 9 of the main research areas and 26 of the sub-research areas.

The fields in which our university stands out both in terms of research quality and research intensity. Its ranking among Turkish universities are given in the table below.

We thank all academic staff who contributed.

<u>Click</u> for TUBITAK 2023 Competency Map.

The ranking of research areas of Istanbul Gelisim University among Turkish universities in terms of quality and research intensity according to the TUBITAK 2023 Competency Map



Main Research Area	Sub-Research Area	Quality Ranking in Turkey	Research Intensity Ranking in Türkiye
Information and Communication	Information security	1	4
	Big Data	15	43
	Broadband Technologies	3	6
Technologies	Internet of Things	4	8
	Robotic	7	40
	Law	1	8
	Economy	2	22
	Business Administration	4	23
	Public Administration	1	1
Social and	Urbanization	1	27
Humanities	Mass Communication	7	45
	Politics and International Relations	1	9
	Sociology	1	24
	Transportation Rail way Systems	1	16
	Logistic	1	17
Environmental	Meteorology	1	11
Sciences	Coal	1	3
	Bioenergy	15	71
Energy	Energy Storage	2	55
	Solar energy	23	65
Physics	Statistical Physics	22	37
Aviation and Space	Aircraft Design	1	42
	Satellite and Launch Technology	3	65
Construction	Civil Engineering	3	35
Automotive	Electric and Hybrid Vehicle Technology	1	42
Basic Sciences	Basic Sciences Mathematics		50



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SCImago University Rankings INSTITUTIONS 2023 Results

SCImago University Rankings has published its 2023 report, which ranks the research, innovation and social impacts of world universities according to percentiles. SCImago University Rankings is a ranking system that measures the social and scientific impact and innovation of universities around the world.

SCImago University Rankings aims to give a general idea about universities by measuring their performance in terms of research, innovation and social impact. The report published after the research can help students, academicians, researchers and other interested parties evaluate universities.

For students, this ranking helps them learn about the quality, effectiveness and prestige of a university in international education. For academic staff and researchers, this ranking provides information on the research activities and effects of universities in different disciplines.

The research performance of SCImago Turkey University Ranking of Istanbul Gelisim University, where multidisciplinary studies are intense, draws attention. According to the evaluation of SCOPUS research output data; Istanbul Gelisim University ranked 2nd in Law, 5th in Civil Engineering, 7th in Industrial Engineering, 32nd in Psychology, 9th in Engineering, 3rd in Environmental Science and 7th in Business Administration among the universities in Turkey.

SCImago University Ranking is very significant for measuring and evaluating the performance of universities, particularly in developing countries. This ranking increases the international recognition of universities in these countries. This ranking offers a more comprehensive perspective when measuring the performance of universities, focusing not only on research impact but also on social impact and sustainability.



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SCImago Institutions Rankings



Area	World	Middle East	OECD	Turkey
Environmental Science	630	20	352	3
Business, Management and Accounting	1096	45	759	7
Engineering	1363	45	901	9
Civil and Structural Engineering	575	22	358	5
Industrial and Manufacturing Engineering	928	41	541	7
Economics, Econometrics and Finance	1592	97	979	26
Energy	1967	146	1117	27
Computer Science	2489	164	1516	29
Social Sciences				
Law	774	22	623	2
Sociology and Political Science	1355	42	1044	12
Geography, Planning and Development	1424	81	908	16

When the data of <u>Istanbul Gelisim University</u> in the Evolution of the Institute are analyzed, it is seen that the investment made by the university in scientific research has increased in recent years and the quality of its scientific output has increased as well. This is very crucial in terms of increasing the academic impact and social benefit of the university. Moreover, the increase in innovation capacity and the increase in interaction with the society are among the other factors that demonstrate the success of the university.

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Significant success in the 'Accessible and Clean Energy' category from IGU!

World universities ranking organization Times Higher Education (THE) Impact Ranking was announced in 2023. In the ranking, Istanbul Gelisim University, among 1591 universities from 112 countries, achieved success by ranking 12th among Turkish universities in the "Accessible Clean Energy" category for the first time this year.

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Istanbul Gelisim

Vocational School

In the list of 1591 universities in the Times Higher Education (THE) 2023 ranking, the world's leading higher education rating agency based in the UK, the success of Istanbul Gelisim University (IGU) was graded in six different categories in line with the United Nations Sustainable Development Goals. IGU, which was included in the "Accessible Clean Energy" category for the first time in the Impact Ranking 2023 list, was ranked 12th among Turkish universities.



Rated in 6 different categories categories

In the ranking carried out in line with the 17 categories determined by the United Nations within the scope of the Sustainable Development Goals (SDG), Istanbul Gelisim University was graded in 6 different categories with its studies in the field of education, innovative projects and contributions to society. IGU;

- Ranked 12th in Turkey in the SDG-7 Accessible and Clean Energy category, 201-300 worldwide,
- Ranked 12th in Turkey in the category of SDG10 Reducing Inequalities, 301-400 worldwide,
- Ranked 14th in Turkey and 401-600 worldwide in the category of SDG-8 Decent Work and Economic Growth and achieved significant success.

"We attach importance to sustainability studies in every field"

Abdulkadir Gayretli, Chairman of the Board of Trustees of Istanbul Gelisim University (IGU), who made statements about the ranking aimed at evaluating the effects of ecological, economic and environmental sustainability practices on society according to the United Nations 17 Sustainable Development Goals, said, "We attach importance to sustainability studies in all areas, especially environmental sustainability, by adopting the Sustainable Development Goals. While implementing practices for the effective use of natural resources, we continue our prominent works on 'Energy and Climate Change' by advancing with a universal sense of responsibility within the scope of energy and waste management. Under the leadership of YÖK President Prof. Dr. Erol Ozvar, we support the fact that universities are sustainable, energy-efficient, compatible with nature and minimally damaging to the environment, and we support the introduction of energy efficiency and renewable energy applications in university campuses. The rating we get in the Accessible and Clean Energy category is therefore very valuable to us. Within the scope of the 'Zero Waste Project' in our university, we fully believe that we will take part in higher levels in the coming years with more effective execution of the waste management system, interactive activities in the fields of rain harvesting, transportation, education and research."

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ABET accreditations of Civil Engineering and Electrical and Electronics Engineering departments have been extended

Abet accreditations of the Civil Engineering and Electrical and Electronics Engineering departments of the IGU Faculty of Engineering and Architecture, registered its international which standards. research and development activities and innovation studies, has been extended until September 30, 2025. IGU Faculty of Engineering and Architecture, which has 5 departments in total with abet accreditation, provides an important reference to its students and graduates on a global scale with its international recognition, quality of education, as well as allowing them to have an advantage in recruitment and admission to foreign master's programs. Click for the rest of the news.



100th Year of Our Republic GSF Group Exhibition Opened!



Organized by Istanbul Gelisim University (IGU), Faculty of Fine Arts (GSF) and curated by Prof. Dr. İsmet Çavuşoğlu, "100th Year of Our Republic GSF Group Exhibition" was opened on Wednesday, October 25, 2023 at 13.00 with the participation of Vice Rector Prof. Dr. Nuri Kuruoğlu, Dean of GSF Prof. Dr. Şükran Güzin Ilıcak Aydınalp, Prof. Dr. İsmet Çavuşoğlu, department heads, department lecturers and students. After Prof. Dr. İsmet Çavuşoğlu's opening speech, the works in the exhibition were examined. In the exhibition, various and very valuable works of our faculty members such as paintings, illustrations, short films and architectural projects were presented to the appreciation of art lovers. <u>Click</u> here to access the news.



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Great Success from IGU Faculty of Applied Sciences within the scope of TUBITAK 2209-A Project!

According to the announced support results of the applications made within the scope of the 2023/1 period of the "2209-A University Students Research Projects Support Program" carried out by the TUBITAK Directorate of Science Fellowships (BİDEB), a total of 5 projects, 4 from Istanbul Gelisim University Banking and Insurance Department and 1 from Gastronomy and Culinary Arts Department, were entitled to be supported. Winning projects;



- Semih Aydoğan (Executor), Çağla Kesgin and Senanur Aşkın "A Study on TCIP Insurance Penetration after the 6.2.2023 Earthquake" under the supervision of Assoc. Prof. Dr. Hakan Özcan - FAS, Banking and Insurance Department.
- Bahar Selçuk (Executor), İrem Rabia Kara and Elif Yüksektaş "Investigation of the Effect of Cash Flows Generated from Operations on Stock Market Value, BIST 30 Application" under the supervision of Assoc. Prof. Dr. Lokman Kantar –FAS, Department of Banking and Insurance.
- Samed Akyar (Executor), Mustafa Bilgin and Melek Demir under the supervision of Assoc.
 Prof. Dr. Lokman Kantar "Analysis of Portfolio Risk Returns with Markowitz Quadratic Programming Method"-FAS Department of Banking and Insurance
- Under the supervision of Assist. Prof Dr. Ayşegül Ertuğrul, Meral Apak (Executor), Nazlı Simav and Melisa Özhim's project titled "Investigation of Factors Affecting Students' Investment Attitudes with Behavioral Finance Approach, An Application on IGU FAS, Students" will be supported. FAS, Department of Banking and Insurance
- Under the supervision of Lect. Kübra Sağlam, Derya Dere (Executor) and Berrak Kılıç (Researcher) "Development of a Vegetarian Water Kefir Ice Cream Formulation Functionalized with Probiotics" – FAS, Gastronomy and Culinary Arts Department.

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We congratulate and thank our students and their advisors for their success!

<u>Click here</u> to access the source of the news.



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"Republic in 100th Year" event was held at IGU

IIstanbul Gelisim University Faculty of Economics, Administrative and Social Sciences organized a symposium on "Republic in 100th Year" within the scope of the activities of the 100th Year of the Republic of Turkey. In the event, distinguished academics evaluated the 100-year history of the republic with different perspectives and topics. <u>Click</u> for the rest of the news.



External stakeholder cooperation protocol signed between IGU SPES and Istanbul Provincial Directorate of Youth and Sports



An external stakeholder cooperation protocol was signed between Istanbul Gelisim University School of Physical Education and Sports and Istanbul Provincial Directorate of Youth and Sports. Visiting the office of Rector Prof. Dr. Bahri Sahin, Istanbul Provincial Director of Youth and Sports Prof. Dr. Burhanettin Hacicaferoglu later met with the students of the School of Physical Education and Sports and held an interview about the future of the field of sports sciences. <u>Click</u> for the rest of the news.



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Istanbul Gelişim Vocational School started education in 2008 with 9 programs and became a school that forms the core of Istanbul Gelişim 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 Gelişim Vocational School students can benefit from the educational and social activity opportunities available in all campuses of our university without interruption.

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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

IGU 2023-2024 Academic Year Opening Ceremony was held

GELIŞİM MEŞLEK YUKSEKDI

Istanbul Gelisim University (IGU) 2023-2024 Academic Year Opening Ceremony was held. Rector Prof. Dr. Bahri Sahin, who made the opening speech, stated that IGU is one of the most preferred universities.

Istanbul Gelisim University (IGU) 2023-2024 Academic Year Opening Ceremony was held. The ceremony, which started with a stance of respect and the National Anthem, continued with the opening speeches of the Rector Prof. Dr. Bahri Sahin and the Chairman of the Board of Trustees Abdulkadir Gayretli after the speech of the University Climate Ambassador Burcu Sahingozlu. TUBA (Turkish Academy of Sciences) Full Member Prof. Dr. Fikrettin Sahin, who attended the ceremony, held the opening lesson of the new academic year with his informative presentation on "The Potential of Boron Compounds in Regenerative Medicine".



"We must stop now, we must listen to the voice of nature"

Referring to the studies carried out by Istanbul Gelisim University on sustainability and zero waste, University Climate Ambassador Burcu Sahingozlu said, "Strangely, rather than harnessing the energy for the benefit of civilization, we would rather harm one another when we discover technology that can even disintegrate atom. Even though we have access to limitless resources like the sun and wind, we continue to consume fossil fuels, which is destroying our forests, oceans, and atmosphere. We must stop now, we must listen to the voice of nature."



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"Universities are the intersection of all sciences"

Prof. Dr. Bahri Sahin, the Rector of IGU, stated that the main goal of Istanbul Gelisim University is to raise individuals who have adopted human, social and universal values, pioneered scientific and technological developments, internalized the values of the society, and had the equipment to represent their country in every international field. Prof. Dr. Bahri Sahin, the Rector of IGU, said, "We are achieving significant successes by moving forward with the vision of becoming a Research University. We have 40 thousand registered students. This is an indication that our university is one of the most preferred universities. We are highly ecstatic about this. We have around 6 thousand registered international students and students from 127 countries are studying at IGU. We can say that this important contribution is an to the internationalization goal set by the Council of Higher Education. We are the university with the most international accreditation in Turkey, and our 65 accredited programs are one of the most important issues that we stand out. We aimed at quality in education, training and research and development. We encourage our students to participate in research projects by providing R&D unions with companies through IGU TEKMER and IGU TTO. In addition to technical innovation, we include our teachers and students working in the social and artistic fields in this ecosystem. So I want to say this; universities are actually the intersection points of all sciences. Therefore, the education-teaching and R&D ecosystem is not only connected to the university. It is a structure that requires cooperation with industry, the public, non-governmental organizations and other stakeholders. Therefore, if you cannot establish this structure, this ecosystem correctly, you have no chance of developing. In fact, joint cooperation with other universities is crucial for us. We can say that we have efforts in this regard."









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"I sincerely believe that we will be among the top universities of the world"

Stating that it is necessary to work together for quality education and quality generation, Abdulkadir Gayretli, Chairman of the Board of Trustees of Istanbul Gelisim University, said, "We are happy to be among the top 4 foundation universities in Turkey in QS, one of the most respected higher education rating agencies in the world. If we are in unity and solidarity, if we constantly motivate ourselves, if we enable our students to run from success to success, if we show ourselves with academic projects and articles, I sincerely believe that we will be among the world's top universities in a short time."



"It is used effectively in one of the blood cancer derivatives"

The opening lecture of Istanbul Gelisim University 2023-2024 Academic Year Opening Ceremony was given by Prof. Dr. Fikrettin Sahin, Primary Member of TUBA (Turkish Academy of Sciences). Giving a lecture on "The Potential Use of Boron Compounds in Regenerative Medicine", Sahin said, "When we look at the reserves, 73% of boron minerals are in Turkey currently. We are the richest country in the world. If we explain where it is used in the health sector; there is a treatment method called Boron Neutron Capture Therapy. This is a type of radiation therapy used in cancer treatment. Another is Bortezomib, which is used effectively in one of the multiple myeloma, that is, blood cancer derivatives. Apart from this, when we look at its use in the field of health, we see that there is a boron element in the structure of some antibiotics. When we look at the results of scientific studies, we see that boron has positive effects on wound healing. increasing antioxidant enzyme activities in the blood, preventing heavy metal poisoning and activating the immune system. Looking at it now, the globe has generated a large number of commercially available supplement goods. These are especially; products used in arthritis, bone growth problems, some cancer diseases, healing of brain functions, hormone regulator and wound healing."



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A trip was organized to the 17th International Istanbul Maritime Fair

maritime Turkey's only industry gathering, Expomaritt Exposhipping Istanbul 17th _ International Maritime Fair was held on October 11-14, 2023 with the motto "Global Maritime Industry's Route Turns to Istanbul". The event held at the Istanbul Expo Center was attended by the 2nd year daytime and evening education students of Maritime and Port Management on 11.10.2023 within the scope of the in-course activity of the International Maritime Conventions and Vocational English courses in order to increase their knowledge and experience as well as to follow the current developments in the sector.

During the event attended by Assist. Prof. Dr. Ramazan ACIKGÖZ's daytime and evening education students within the scope of International Maritime Conventions and Vocational English courses, students met with industry actors who are the locomotive of the maritime industry in Turkey and in the world. Our students raised awareness about the importance of leaving a more livable world and marine environment to future generations and their social and individual responsibilities on sustainable maritime issues



Expomaritt Exposhipping Istanbul 2023, the leading maritime event of the year, left many beautiful memories behind. During the 4-day Expomaritt event, maritime professionals from around the world gathered at the Istanbul Expo Center to discover the latest innovations in the industry, make new connections and share knowledge.

The 17th International Maritime Exhibition hosted 8862 industry professionals from 70 countries. With the in-class activity at Expomaritt, Istanbul Gelisim University IGVS Maritime and Port Management Department was proud to be a part of the event.

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Food Technologies Club Celebrated October 16 World Food Day

The Food Technology Club, advised by IGVS, Food Technology Program Head Lect. Kübra SAĞLAM, celebrated World Food Day on October 16. At the food stand opened by the students of the Food Technology Program within the scope of World Food Day, information was given about common misconceptions about food and sustainability in food, and healthy foods were served. The stand was visited by IGVS Director Assoc. Prof. Dr. Lokman Kantar, Assistant Directors Lect. Sinan Karanfil and Lect. Damla Yağcı, and IGVS academicians and students.





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IGVS October Appointments





Asst. Prof. Dr. Esat DASDEMIR has been appointed as "Assistant Professor" in Istanbul Gelisim Vocational School Banking and Insurance Program.

Gul SENER started to work as an "Office Worker" at Istanbul Gelisim Vocational School.



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IGVS, Public Relations and Publicity Program lecturer Zeynep ÖZCAN took part as a jury member in the 2nd International Göbeklitepe Short Film Festival organized by Ankara Şanlıurfa Volunteers Association in Şanlıurfa. A total of 953 film applications from 79 countries were to the Short Film Festival. made named after Göbeklitepe, one of the most important archaeological discoveries of the world in Sanliurfa. Important names from the world of academia and art, including Özcan, evaluated the festival films and determined the top three. The top three films were "Pattern" directed by Erkan SELÇİ, "Weld Horses" directed by Prof. Dr. Özer KANBUROĞLU and "The Quest" directed by Orhan DEDE. At the gala and award ceremony of the festival program held between 14-15 October 2023, the top three films were presented their awards by the protocol.

IGVS, Occupational Health and Safety Program Faculty Member Dr. Kaan KOÇALİ's article titled "Investigation of Drilling and Blasting Operations in Underground Mining by Fine-Kinney Risk Assessment Method" was published in the field indexed "International Journal of Social Humanities Sciences Research". <u>Click</u> for access.



R & D

Assist. Prof. Dr. Kaan KOÇALİ, one of academicians the of IGVS, Occupational Health and Safety Program, made full-text а presentation titled "The Facts Behind the Annual Number of Work Accidents Graph of Turkey and Reading the Data for Occupational Health and Safety Researchers" as a session chair at the "2nd International Silk Road Scientific Research Congress" hosted by Igdir University on 26-27 September 2023.



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Tübitak 2209-A University Students Research Project Success

Within the scope of "Tübitak 2209-A University Students Research Project" 2023/1st Term, 6 Tübitak 2209-A projects advised by our academicians from İstanbul Gelişim University, Food Processing Department and Food Technology program were accepted. We congratulate our students and academicians and thank TÜBİTAK for its support. Accepted project information;

STUDENT	ADVISOR	FACULTY	DEPARTMENT	PROJECT	
Executor: Ceren DEMiR Project Partner: Esma ASLAN	Lect. Nurullah Zekeriya AKAR	IGVS	Food Technology	Investigation of the Possibilities of Utilization of Industrial Fruit Wastes in Vegetable Based Cream Production	
Executor: Ceren VATANSEVER Project Partner: Nedret Dağ	Lect. Aslı Muslu CAN	IGVS	Food Technology	Watercolor from Food Waste	
Executor: İkbal UÇAR	Lect. Kübra SAĞLAM	IGVS	Food Technology	A Research on the Encapsulation of Vinegar Mother of Vinegar Obtained from Apple, Grape and Hawthorn Fruits by Lyophilization Method and Investigation of Its Potential for Food Supplement Use	
Executor: Ece SEYİS Project Partner: Eylül Seyis, Ezgi CEBECİ	Lect. Eda Şensu DEMİR	IGVS	Food Technology	Investigation of the Usability of Chickpea Flour, a Vegetable Protein Source, in Vegan Ice Cream Production	
Executor: Hüseyin YÜCEL	Lect. Kübra SAĞLAM	IGVS	Food Technology	Development of a Functional Healthy Product: Production of Nutrient Enriched Baby Crackers	
Executor: Derya DERE Project Partner: Berrak KILIÇ	Lect. Kübra SAĞLAM	FAS	Gastronomy and Culinary Arts	Development of a Vegetarian Water Kefir Ice Cream Formulation Functionalized with Probiotics	



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Assist. Prof. Dr. Kaan KOÇALİ, one of the academicians of the IGVS, Occupational Health and Safety Program, received the "Best Researcher Award" for the 3rd time in the field of "Occupational Health and Safety" at the "International Research Awards on Science, Health and Engineering" event held annually in India. <u>Click for access.</u>

IIGVS, Food Technology Program Head Lect. Kübra SAĞLAM's TUBITAK 1001 project titled "Determination of Protein Fraction Change and Bioactive Properties in Tarhana Fermentation" (Project No: 123O453) was accepted. <u>Click</u> for access.





With the contributions of the Republic of Turkey Ministry of Culture and Tourism General Directorate of Cinema, within the scope of "100th Anniversary of the Republic Events"; Lect. Zeynep Özcan from the Public Relations and Publicity Program took part as a pre-jury member in the 2nd Great Offensive International Short Film Festival organized under the coordination of Afyonkarahisar Provincial Directorate of Culture and Tourism under the leadership of Afyonkarahisar Governor Assoc. Prof. Dr. Kübra Güran Yiğitbaşı. The jury members, including Lect. Zeynep Özcan, consisting of academics and cinema professionals, evaluated more than 2,800 short films from 122 countries. The festival was held in Afyonkarahisar between October 24-27, 2023. Within the scope of the festival program, various film screenings and interviews were held; the winners were presented their awards at the award ceremony on October 27, 2023 at 20:00.



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OCIAL CONTRIBUTION

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PHOTOBIOREACTORS AS AN ALTERNATIVE MATERIAL AND ENERGY SOURCE

Lect. Selin Rüya ÇAKIR Interior Design Program

Climate change, global warming, disasters, wars, foreign dependence on energy have led people to search for sustainable materials, efficient use of energy and alternative energy sources.

Since buildings have an important share in energy consumption, it is necessary to turn to alternatives that consume less energy and produce their own energy. Sustainable architecture, which prioritizes the use of renewable energy sources, is environmentally sensitive, uses energy, water, materials and environmental resources with future generations in mind, and takes human health and comfort into consideration, has emerged with this understanding [1, 2].

Photobioreactors appear as an important and promising alternative shell material for sustainable architecture that provides energy production.

Microalgae

They are one of the oldest life forms described as having a tallus body without any organ development. They are the primary producers of the aquatic ecosystem and are considered among the most important living classes. They are frequently used in areas such as fish and larvae farming, food industry, medicine, cosmetics, pharmacy, energy production and textiles [3].

They photosynthesize using light and convert inorganic substances into organic [4].



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Microalgae production is carried out in order to grow large-scale productive crops with economic expenditures. Light, temperature activities, hydrodynamic balance, continuity of culture are important for microalgae production and production system selection.

Different species of microalgae need to grow in their own specific conditions.

Spirulina grows in high pH, Dunaliella salina in high salinity, and Chlorella in nutrient rich environment [5].

Usage in Architecture

The use of microalgae integrated into buildings in architecture is much newer than its use in other sectors. Closed system microalgae cultures integrated into buildings with systems called photobioreactors were first built by Graz and Splitterwerk in Hamburg in 2013. The building is the first bioadaptive façade in the world. It was designed for the Smart Material House competition and won first place [6].

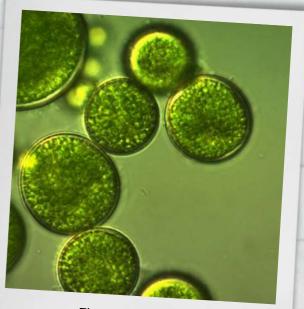
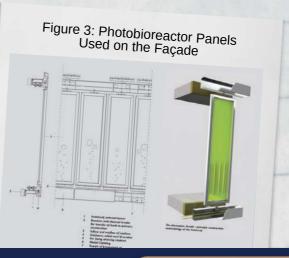


Figure 1: Microalgae



Figure 2: The First Bioadaptive Façade Building in the World Hamburg/Germany



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Photobioreactors

Microalgae can be grown in open or closed systems. Photobioreactors refer to microalgae culture grown in a closed system and utilizing sunlight. They have large areas in transparent and sealed containers that benefit from most sunlight [1, 7, 8].

Production systems can be subdivided into tubular flat plate, biocoil, vertical column, plastic bag.

Photobioreactors are emerging as an alternative active system to photovoltaic systems. By generating energy, they can enable the building to reach its zero-energy target. In the Hamburg example, it is stated that the facades will produce 30 kWh/m² bioenergy and 150 kWh/m² heat energy every year [1].

In the examples made so far, temporary examples are more advantageous in terms of initial investment cost than permanent examples [9]. The photobioreactor systems in Hamburg were built at a high cost of 5 million euros. The investment cost of the system is higher than open systems, solar or conventional fuels [10]. Maintenance and repair costs of flat plate types are less than tubular type systems. Since photobioreactors convert light energy into bioenergy and then heat and electrical energy can be produced from this energy, they enable the energy costs of the building to be reduced or even zero [3].

Photobioreactors are promising as an important ecological material to achieve zero-energy building targets and provide a sustainable environment.

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Meeting of Information Technologies and Biological Processes in Art and Architecture

Lect. Ece CANTEMIR Interior Design Program

New and dynamic design approaches in architecture and art have emerged with the developments in information technologies. Concepts inspired by nature, such as speed and dynamism, have inevitably changed and transformed with the inclusion of information technologies in architectural and artistic processes. In this article, we will examine the changing design processes under the influence of computer-based technologies and how biological processes are combined in art and architecture.

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The New Journey of Architecture and Art with Technology:

Information technologies, which accelerate design processes, go beyond traditional design by including biological processes in design. Designs are aimed to be environmentally sensitive and effective. Integrating biological processes into design, especially in the fields of architecture and art, allows the resulting works to differentiate both aesthetically and functionally.

New Experience in Architecture:

In works such as "The Shed (2019)", "The Elytra Filament Pavilion (2016)" and "Digital Grotesque II (2017)" we can see the effects of fractal editing. Information technologies and biological processes come together to represent experimental architecture. In these works, which are examples of experimental architecture, observe spaces that we are environmentally sensitive, user-oriented and use different materials. In addition, sustainable and flexible spaces are created by moving away from the rigid, fixed form of traditional architecture.





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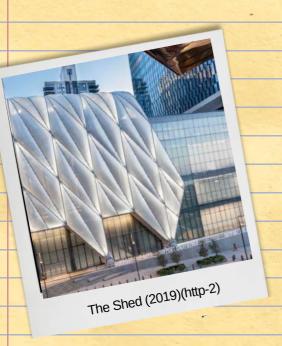
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Biological Transformation in Art:

As in architectural design, the influence of information technologies and biological processes can be observed in the art world. Works such as "Fractum Regnum (2016)", "Growing Objects (2014)" and "Archive Dream (2017)" place biological design processes at the center of art. In these exemplary works, the form is in a constant state of evolution, and viewers can experience this art through snapshots of the process rather than the end result. The choice of different materials, the duration of the works and the medium in which they are represented expand the boundaries of art.



Conclusion:

Developments in information technologies and biological processes have led to change and transformation in the field of architecture and art, and led to a rethinking of traditional design processes. This meeting has led to the of previously unthinkable emergence forms. environmentally sensitive spaces and flexible designs thanks to the experimental environment it provides to designers. Contrary to the rigid stance of traditional designs, designs that are in a constant state of evolution cause those who experience them to experience a different kind of art and architecture. Thus, the combination of information technologies and biological processes opens a new path for design.

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CLUBS

Awareness and Travel Club is a student club established under Istanbul Gelişim University Health, Culture and Sports Department. Club consultancy is carried out by Lect. Onur KORU, Head of Justice Program at Istanbul Gelişim University, Istanbul Gelisim Vocational School. The aim of our club is to carry out awarenessraising activities while organizing various excursion activities. The main activity and purpose of existence of the club is to raise awareness in some areas. Travel activities are thought to be a tool to achieve this goal. Although our club was founded by Istanbul Gelişim Vocational School, Justice students, it is open to all university students.

TALK

Our club's fields of activity are as follows:

- Making travel programs in Istanbul,
- Making out-of-state travel programs,
- Organizing winter trips,
- Organizing camp programs,
- To enrich travel activities with awareness.



AWARENESS AND TRAVEL CLUB

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OUR STAKEHOLDER MEETINGS

Borusan Otomotiv held a meeting with the Hybrid and Electric Vehicles Technology Program

Hybrid and Electric Vehicles Technology Program held a meeting with Borusan Otomotiv company officials with the participation of our Istanbul Gelisim Vocational School Director Assoc. Prof. Dr. Mr. Lokman KANTAR. During the meeting, issues such as ensuring university and industry cooperation, benefiting from internship and job opportunities of Istanbul Gelisim Vocational School students and external stakeholder agreements were discussed and ideas were exchanged.





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<u>OUR STAKEHOLDERS</u>















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LISIM MESLEK YÜKSEKOKULU

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GELISIM MESLEK

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Lect. Hasan Hüseyin TAŞER Technology of Hybrid and Electric Vehicles Program

> Lect. Kübra SAĞLAM Food Technology Program

> > Lect. Onur KORU Justice Program

Lect. Selin Rüya ÇAKIR Interior Design Program

Lect. Zeynep ÖZCAN Public Relations and Publicity Program

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