

# Istanbul Aydın University



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## ENGINEERING FACULTY

## e - Newsletter

SEPTEMBER / 2025

Issue: 36



## ORIENTATION PROGRAM

On September 24, an orientation program for the first-year students of the Faculty of Engineering was held by Prof. Dr. Ahmet Metin GER, with the participation of the Dean of the Faculty, Prof. Dr. Hasan SAYGIN, and the faculty members.



## TEKNOFEST SUCCESSES

The Kürşat40 team, mentored by Asst. Prof. Dr. Cafer SOLUM from the Department of Mechanical Engineering, Faculty of Engineering, achieved third place in the Rotary-Wing UAV category at Teknofest, where 30 finalist teams competed.

The ElectroAydın team, supervised by Asst. Prof. Dr. Süleyman ŞİMŞEK, qualified as a finalist in the Teknofest competition.





## LIST OF THE WORLD'S MOST INFLUENTIAL SCIENTISTS

Based on Scopus data, Stanford University has announced the list of the World's Most Influential Scientists, which includes Prof. Dr. Abdülhadi BAYKAL, Prof. Dr. Beşir ŞAHİN, Prof. Dr. Kamil KAYGUSUZ, and Asst. Prof. Dr. Süleyman ŞİMŞEK from the Faculty of Engineering. We congratulate our esteemed professors on this achievement.



## JOURNAL EDITORSHIP

Assoc. Prof. Dr. Mustafa AKBULUT, a faculty member of the Departments of Mechanical and Aerospace Engineering, has been appointed as an Associate Editor to the editorial board of the Journal of Low Frequency Noise, Vibration and Active Control, a prestigious international academic journal in the field of engineering and applied vibrations, indexed in the SCI Q2 category. He will serve under the subfield titled "Vibration-Induced Fatigue and Advanced Simulation Techniques for Structural Integrity and Control."

Co-Guest Editor:



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**Assoc. Prof. Dr. Mustafa Akbulut** is a Professor of Mechanical Engineering at Istanbul Aydın University, Türkiye. He earned his B.S in Mechanical Engineering from Istanbul Technical University and M.Sc. and Ph.D. in Mechanical Engineering from Bogazici University. He also worked for The Scientific and Technological Research Council of Türkiye (TÜBİTAK) for more than 14 years. His research covers fatigue and fracture mechanics, structural optimization, composite materials, finite element analysis, mechanical vibrations. Assoc. Prof. Mustafa Akbulut has published extensively in leading international journals and actively collaborates with researchers in his field.



## WELCOME TO MECHANICAL ENGINEERING FOR A BRIGHT FUTURE

During the first week of the **2025–2026 academic year**, the **Mechanical Engineering Department of Istanbul Aydın University** welcomed its new students at an orientation program titled “**Welcome to Mechanical Engineering for a Bright Future.**”



Under the leadership of Prof. Dr. Ersin ARSLAN, faculty members and research assistants of the department came together with the students, providing information about the department’s vision, academic opportunities, and future goals. The event also offered students the chance to get to know both the academic staff and one another.



The event also featured a speech by a young Mechanical Engineer who graduated this year as the **second top student of the department**. Sharing the **opportunities and challenges** encountered during the journey to graduation, the speech proved to be **inspiring for the new students**.



One of the highlights of the program was the participation of officials from the **Istanbul Branch of the Chamber of Mechanical Engineers (TMMOB)**. The officials informed the students about the membership process, student registration, and the importance of professional solidarity, while also providing details about the opportunities offered by the chamber to students.



The program, enriched with department introductions, laboratory, and workshop tours, became a strong source of motivation for the new students.



The orientation event concluded with the message “Welcome to Mechanical Engineering for a Bright Future”.

## BRONZE MEDAL AWARD

The invention titled “Heatable Electrically Conductive CTB Facade Cladding Material and Its Production”, presented at ISIF’25 – the 10th International Invention Fair organized within the scope of Teknofest 2025 Istanbul events, was awarded the Bronze Medal. We congratulate Dr. Haydar DEHGAN and his students for their outstanding achievement.





## WORKSHOP

An online workshop was organized under COST Action LIAISE WG2 on September 9, 2025, moderated by Assoc. Prof. Dr. Hasan Volkan ORAL.





### LATEST ACADEMIC PAPERS

#### Articles published in internationally indexed peer-reviewed journals (SCI-SCIE-ESCI ve Scopus)

Demir, V., Fu, M., Abba, S. I., Halder, B., Ahmadianfar, I., Heddam, S., Kılınç, H.Ç., ... & Yaseen, Z. M. (2025). Performance assessment of advanced data-intelligence models for solar radiation forecasting: a case study in a high solar potential region. *Climatic Change*, 178(10), 1-24.

Akbulut, M., & Ertas, A. H. (2025). Studying the Connection Between Fatigue Life and Modal Characteristic in Composite Structures Having Geometrical Singularities. *Mechanics of Composite Materials*, 1-18.

Deniz Kaan Koksall, Kaveh Dehghanian, Machine learning framework for shear wave velocity prediction using geotechnical parameters: Integration of uncertainty analysis and soil behavior clustering, *Next Materials*, Volume 9, 2025, 101316, ISSN 2949-8228

Structural, docking, molecular dynamics and antibacterial analysis of thymopentin: A potent anti-cancer, - COVID-19 and viral (2025), Alev Er , Sefa Celik\* , Elif Cakir , Aysen E. Ozel, *Bulletin of the Chemical Society of Ethiopia* 39 (10)

Ozturk, B. A., Alkhatib, I. A. Y., Hejaz, O. Z., Shamaileh, A. A., Al-Karablieh, M. A., Alqudah, M., ... & alkhrisat, S. S. (2025). Optimization on Multiple-Input and Multiple-Output (MIMO) Network Affect Performance of an Radio Frequency (RF) in 6G. *Internet Technology Letters*, 8(6), e70139.

Pisken, E., & Simsek, S. (2025). Analysis of chemical and biological risk effects to personnel exposed to ionizing radiation hospital example. *Thermal Science*, 29(4 Part B), 2945-2953.

Ayca, S., & Dincer, I. (2025). Simultaneous Ni-TiO<sub>2</sub> coated electrodes for hydrogen evolution reaction in alkaline media. *International Journal of Hydrogen Energy*, 172, 151273.  
<https://doi.org/10.1016/j.ijhydene.2025.151273>