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The Faculty of Engineering and Architecture

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SCIENTIFIC STUDIES AT OUR FACULTY

- The article entitled “Mechanical and Durability Properties of Steel, Polypropylene and Polyamide Fibers Reinforced Slag-Based Alkali-Activated Concrete” by **Assist. Prof. Dr. Mukhallad AL-MASHHADANI** and **Assoc. Prof. Dr. Anil NIŞ**, our Civil Engineering faculty members, is published in the European Journal of Environmental and Civil Engineering.
- The article of **Assist. Prof. Dr. Masoud DAREKSHANDEH**, one of our Civil Engineering faculty members, titled “Effect of light on growth of green microalgae *Scenedesmus quadricauda*: influence of light intensity, light wavelength and photoperiods” was published in the International Journal of Energy and Environmental Engineering, “Logistics Regression and Geographical His article titled “Forest Fire Risk Modeling Using Information Systems: Muğla-Milas Example” was published in the Journal of Natural Disasters and Environment.
- The article named “Adaptive Harmony Search for Cost Optimization of Reinforced Concrete Columns” by **Assist. Prof. Dr. Aylin Ece KAYABEKİR**, one of our Civil Engineering faculty members, was published in the International Conference on Intelligent Computing & Optimization, and the article named “Optimization of cylindrical wall domes via metaheuristic algorithms” Challenge Journal His article titled “Optimum Design of Reinforced Concrete T-Beam Considering Environmental Factors via Flower Pollination Algorithm” was published in the journal of Structural Mechanics, in the International Journal of Engineering and Applied Sciences.
- The paper entitled “Determination of the Wave Energy Potential of Marmara Sea” by **Res. Assist. Muhammed Emre ULUSAN**, one of our Civil Engineering faculty members, was published at the 11th International 100% Renewable Energy Conference.



THE NEWS FROM DEPARTMENTS

Mechatronics Engineering

- Mechatronics System Design Project presentations were made on 24.01.2022 – 25.01.2022.

Aeronautical Engineering

Boom To Build Overture Production Plant in North Carolina

Boom Supersonic Airplane is taking the next step to bring its Overture airliner to market with the selection of Piedmont Triad International Airport in Greensboro, North Carolina as the site for its manufacturing plant. Plans call for breaking ground on the plant this year, beginning production on the Mach 2.2 Overture in 2024, and employing some 2,400 workers there by 2032.

The company called Greensboro an optimal location for its aerospace workforce base. In the Piedmont Triad area, Greensboro is home to several aerospace companies, including Honda Aircraft and Haeco Americas. Another advantage to the location, is its proximity to the Atlantic Ocean, which will facilitate supersonic flight testing.

“Selecting the site for Overture manufacturing is a significant step forward in bringing sustainable supersonic air travel to passengers and airlines,” said Boom founder and CEO Blake Scholl.

Boom rolled out its one-third scale XB-1 demonstrator in October 2020 as a testbed for Overture technologies. Initial plans call for an airliner that could carry between 65 and 88 passengers running on 100 percent sustainable fuel. Expected to roll out in 2025 and fly in 2026, the Overture is anticipated to begin revenue passenger flights by 2029. Including both orders and options, Boom claims a backlog totaling \$14 billion from United Airlines and Japan Airlines. The company also is working with the U.S. Air Force on potential government applications.



PROTECTION AGAINST VIRUS IS IN OUR HANDS



THE MOUTH AND NOSE SHOULD BE CLOSED WITH PAPER TOWEL DURING COUGHING AND SNEEZE. IF YOU DO NOT HAVE ANY WIPE, THE INSIDE OF THE ELBOW SHOULD BE USED.



CLOSE CONTACT SHOULD AVOID LIKE HANDSHAKE AND HUGGING.



IT SHOULD BE STAYED AWAY FROM CROWDED ENVIRONMENTS.



DO NOT TOUCH THE MOUTH, NOSE AND EYES WITH DIRTY HANDS.



HANDS MUST BE WASHED WITH WATER AND NORMAL SOAP FOR AT LEAST 20 SECONDS.



ALCOHOL CONTENT HAND ANTISEPTICS SHOULD BE USED IN CASE OF THERE IS NO WATER AND SOAP.


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