T.C. **ISTANBUL AYDIN UNIVERSITY**

TECHNOLOGIES

APPLICATION and RESEARCH
CENTER

TAG:

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E-NEWSLETTER

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T.C. İSTANBUL AYDIN UNIVERSITY DEFENSE INDUSTRY TECHNOLOGIES APPLICATION and RESEARCH CENTER

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DEFENSE INDUSTRY **TECHNOLOGIES APPLICATION** and RESEARCH CENTER

Message of Director

The purpose of the Defense Industry Technologies Application and Research Center (SSTUAM), established within the body of Istanbul Aydın University, is to conduct research on defense technologies, to perform analysis, to carry out modeling, design, simulation and manufacturing studies, to monitor and evaluate defense technologies, to make technology predictions regarding technologies, to contribute for the development of defense technologies and industry by developing basic and infrastructure technological technologies, making engineering applications for needed systems subsystems. At the same time, we aim to contribute to the infrastructure of our students who will graduate in the project-oriented studies carried out within our center.

The importance of the defense industry is increasing day by day in Turkey as well as in the rest of the world. Defense industry; It is an industrial sector that is not separated from the general industry, can produce and maintain the vehicles, equipment and weapons, ammunition required in the field of national defense and has a connection with manufacturing technologies. The defense industry is not only a commercial factor; at the same time, it is an industrial organization that considers and evaluates many issues such as reliability, strategic, confidentiality, low dependency and technological competence. The defense industry is an important field where the most advanced technology systems are used and constantly needs new technologies. It is a fact that the technologies developed in this field are used for civilian purposes later on, thus contributing to the socio-economic development of countries. Therefore, while the defense expenditures, which are inevitable for Turkey, continue, our aim is; Our aim is to make our country a product and technology producer in the field of defense industry in order to increase our country's national technology capability and to achieve economic and social gains.

> Asst. Prof. Dilşad AKGÜMÜŞ GÖK SSTUAM Director







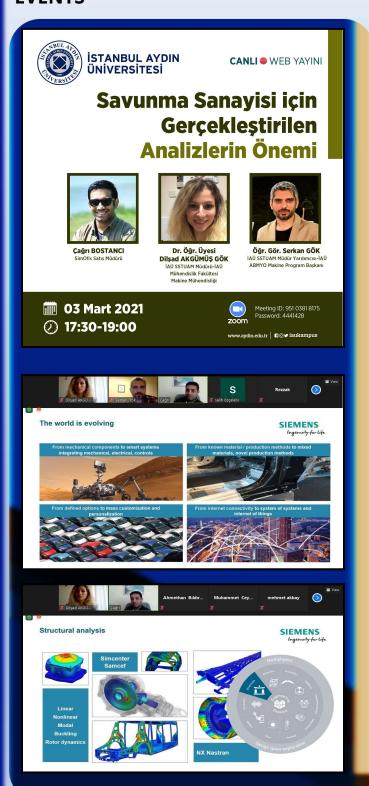


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On Wednesday, 03.03.2021 at 17:30, the webinar titled "The Importance of Analysis for the Defense Industry" was held with 83 participants and SimOfis Mühendislik Sales Manager Mr. Çağrı BOSTANCI. The webinar was moderated by Istanbul Aydın University Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK.

In the webinar held, the designs made in the defense industry and the environmental conditions that these designs will be exposed to and the importance of the materials used were discussed.

It is expected that many of the products produced for the defense industry will different environmental operate in conditions and at the same time maintain their superior properties even under these conditions. The webinar about how the design will react to these conditions and how the results will be interpreted as a result of the analyzes made in line with the determined parameters has also been uploaded to the IAU SSTUAM youtube page for those who cannot watch it live.





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On Thursday, 18.03.2021 at 13:00, the webinar titled "Fatigue Analysis Applications in the Defense Industry " was held with 78 SimOfis Mühendislik Sales participants. Manager Mr. Çağrı BOSTANCI and SimOfis Engineering FAE Application Engineer Buse Simay KARABULUT. The webinar moderated by Istanbul Aydın University Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK.

In the seminar, fatigue analyzes made in order to determine how long the produced parts can fulfill their duties were mentioned.

In this webinar, which emphasizes that it is very important to know the life of the products and parts produced in order to make a correct planning in the defense industry, general information about fatigue is also given and an example fatigue analysis is shown in practice. For those who could not watch the webinar live, it has been uploaded to the IAU SSTUAM youtube page.





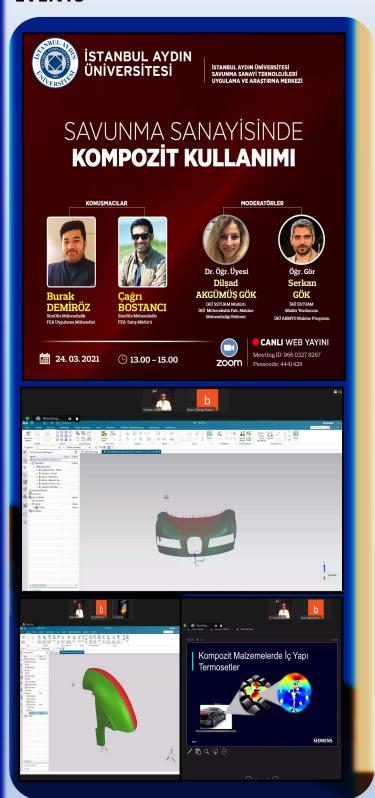




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On Wednesday, 24.03.2021 at 13:00, the webinar titled "Composite Usage in Defense Industry" was held with 65 participants, SimOfis Mühendislik Sales Manager Mr. Çağrı BOSTANCI and SimOfis Engineering FAE Application Engineer Burak DEMİRÖZ. The webinar was moderated by Istanbul Aydın University Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK.

In the seminar, the place and importance of composite materials in the defense industry were discussed.

In addition to explaining the general information and production methods of composite materials, which are widely used in the defense industry, the webinar, where the simulation applications of composite materials and the parameters that need to be handled during these applications are mentioned, has also been uploaded to the IAU SSTUAM youtube page for those who cannot watch it live.









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On Wednesday, 31.03.2021 at 13:00, the "Acoustic webinar titled **Analysis** Applications in Defense Industry" was held with 57 participants, SimOfis Mühendislik Sales Manager Mr. Çağrı BOSTANCI and SimOfis Engineering FAE Application Engineer Buse Şimay KARABULUT. The webinar was moderated by Istanbul Aydın University Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK.

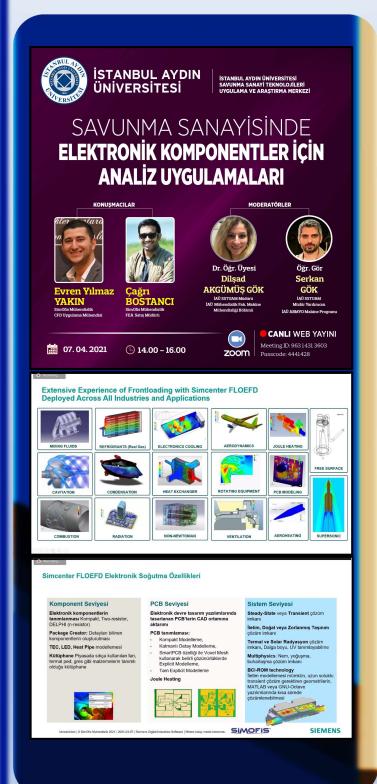
In the webinar, general acoustic applications, what is encountered in the defense industry and the methods used in acoustic analysis were mentioned. Acoustic applications for the defense industry and how the boundary conditions for the application were defined, as well as the intended results, the webinar supported with sample geometries was uploaded to the IAU SSTUAM youtube page for those who could not attend live.



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On Wednesday, 07.04.2021 at 14:00, the webinar titled "Analysis Applications for Electronic Components in the Defense Industry" was held with 50 participants, SimOfis Mühendislik Sales Manager Mr. Çağrı BOSTANCI and SimOfis Engineering CFD Application Engineer Evren Yılmaz AKIN. The webinar was moderated by Istanbul Aydın University Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK.







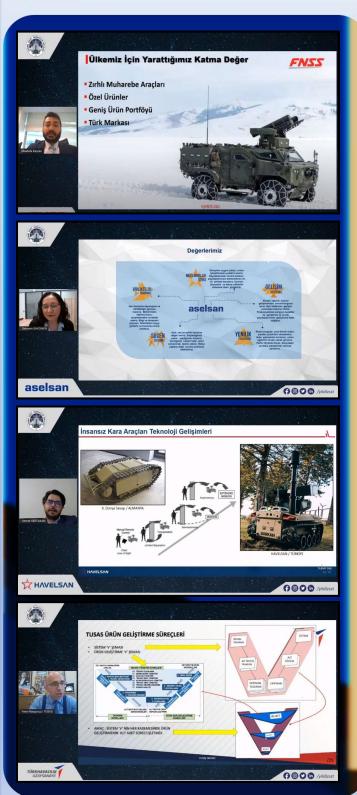




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Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK participated in the "Defence Industry Summit" event organized by Yıldız Technical University on March 29-30, 2021.









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Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK and Deputy Director and Lect. Serkan GÖK participated in the 16th ILTEK Days digital fair held on March 29-30-31, 2021.









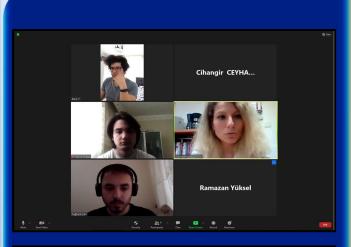


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The preliminary application process has been successfully completed with the "NOVA UAV" team formed by our students in the "Combat **UAV Competition**" category within the scope of Teknofest 2021 Technology Competition, supervised by Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK , and the preliminary design report is awaited.









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the Defense **Industry** Technologies Application and Research Center, a certificate of participation is prepared and sent to the participants for each of our webinars and More than events. 150 participation certificates have been prepared and sent for different webinars so far.



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Information meetings were held with the center directors and YUM students at the Defense Industry Technologies Application and Research Center.









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Defense Industry Technologies Application and Research Center Director Asst. Prof. Dilşad AKGÜMÜŞ GÖK participated in the "TUBITAK 1001 R&D Project Preparation Training in the Field of Engineering " event organized by Afyon Kocatepe University Technology Transfer Office on February 8-9-10, 2021.



CSWA (Associate) and CSWP (Professional) exams with international validity were conducted by Defense Industry Technologies Application and Research Center Deputy Director Lect. Serkan GÖK 3 times, at different times, for students, graduates, academic and administrative staff. In these exams, 80 people took the CSWA exam and 32 people took the CSWP exam, and a 50 percent success rate was observed.









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