

Department of Avionics

Istanbul Gelişim University Faculty of Applied Sciences

“ The aviation profession is a reflection of humanity's passion for flight that has existed since the first day we began observing birds. The Aviation Electrical and Electronics Department aims to blend this passion with future technology, equipping students with the necessary cognitive skills to ensure safe and efficient flight environments.

ASSIST.PROF.BEDİA MERİH ÖZÇETİN

Department of Avionics Department Chair



Faculty of
Applied Sciences



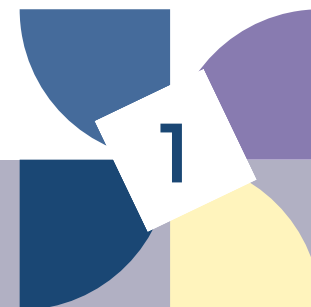


Where True Aviators Are Born

In our Department of Aviation Electrical and Electronics, we provide the knowledge and skills necessary to explore the limitless freedom of the sky. Our students specialize in the design and maintenance of revolutionary electrical and electronic systems in the aviation industry.

This department not only imparts technical knowledge but also fosters innovative thinking and problem-solving abilities. Embracing the free spirit of aviation, our students have the opportunity to become pioneers in this dynamic and rapidly evolving field.

We equip our students with the necessary skills and teach them to view aviation from different perspectives.



Department Objective

The aim is to train personnel as "licensed technician candidates" for maintenance and repair in the aviation sector according to international standards.

“**Flying is not just a means of transportation; it's also a passion and a dream.**”

The Future of the Department

The Department of Aviation Electrical and Electronics is undergoing a significant transformation with technological advancements. The increasing demand for sustainable and efficient flight solutions has led to a growing interest in electric and hybrid aircraft technologies. With evolving technology and growing needs, there is a demand for expert maintenance personnel for these developing systems. In this context, the Department of Aviation Electrical and Electronics plays a key role in achieving the aviation industry's sustainability and innovation goals by training the future maintenance technicians.





In the Department of Aviation Electrical and Electronics Maintenance, the aim is to provide education in accordance with the principles set by the Council of Higher Education (YÖK) and European Union Standards, as well as the regulations such as SHT-147/SHT-66/EASA Part-66 Aircraft Maintenance Personnel Regulation and SHT-147/SHT-66/EASA Part-147 Aircraft Maintenance Training Organizations Regulation.

In this context, our department has been approved as a "RECOGNIZED SCHOOL" by the Directorate General of Civil Aviation.





Program and Curriculum Information

Our department has been accredited by the Directorate General of Civil Aviation and has earned the B2 certificate. As a result, the weekly topics, module courses, and task training contents are determined and approved by the Directorate General of Civil Aviation.

Students who succeed in the midterm and final exams of our approved curriculum courses are eligible to take module exams after successfully completing the courses. Upon successfully passing these exams, our students earn the Recognized School certificate accredited by SHT-147 after successfully completing their TASK training.



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**Flying is the triumph of human
imagination and technology.**
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A decorative icon consisting of four overlapping squares in yellow, purple, and blue.

Learning Outcomes

- ✓ Defines the basic concepts in the field of aviation.
- ✓ Conducts comprehensive literature review in the field.
- ✓ Keeps track of the aviation agenda.
- ✓ Performs technical and maintenance practices in the field of aviation.
- ✓ Masters relevant maintenance training and practices.
- ✓ Has knowledge about avionic systems and possesses the capability to perform necessary maintenance.
- ✓ Is aware of the required solutions to encountered problems.
- ✓ Has skills in electronic circuit connections.
- ✓ Can read complex circuits and conduct measurements on them.

Gain Experience in Laboratories and Workshops

- ✓ B2 Avionics Laboratory Aircraft
- ✓ Structural/Mechanical Workshop
- ✓ Aircraft Engine Workshop I
- ✓ Aircraft Engine Workshop II
- ✓ Aircraft Systems Workshop I
- ✓ Aircraft Systems Workshop II
- ✓ Electrical Electronics Laboratory
- ✓ Melike Kuvvet Aircraft Hangar



Innovative Courses



Our department has been accredited by the Directorate General of Civil Aviation and has earned the B2 certificate. As a result, the content of our weekly topics, module courses, and task trainings is determined and approved by the Directorate General of Civil Aviation.

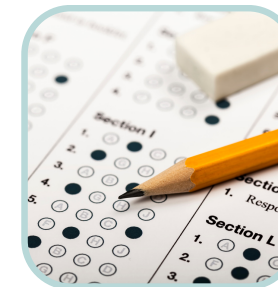


Module Exams

Aviation module exams are assessments conducted to verify the specific knowledge and skill levels of individuals working or intending to work in the fields of aviation maintenance and engineering. These exams are typically organized according to standards set by aviation authorities such as EASA (European Aviation Safety Agency). After successfully completing their courses, our students become eligible to take module exams.

TASK Trainings

Aviation module exams are exams organized to test the knowledge and skills of individuals who are involved in or aspire to have a career in aviation maintenance and engineering sectors. These exams are typically conducted in accordance with criteria set by aviation authorities such as EASA (European Aviation Safety Agency). Our students receive these trainings from experts in their approved laboratories.



Our Academic Staff



ASSİST.PROF.BEDİA MERİH
ÖZÇETİN
Department of Avionics Department
Chair



ASSİST.PROF.
BEKİR VOLKAN AĞCA
Department of Avionics



RES.ASİSST.
ABDULLAH CAN AL
Department of Avionics



In our department, the academic staff consists of instructors with diverse expertise in various fields. This diversity enables our students to benefit from a wide range of perspectives and become effective avionics technicians. In addition to theoretical instructors with backgrounds in aviation and engineering, we also have competent instructors with practical expertise in our department.

The Future Aviators are Being Trained at IGU UBF!

Our university and department not only contribute to gaining knowledge and skills but also contribute to progressing towards becoming individuals who will create their own difference and contribute to society. Our students have the opportunity to develop their skills in various workshops, learn while having fun at festivals, create awareness in social responsibility projects, and participate in unforgettable events, giving them the chance to showcase themselves in competitions. Our activities also promote collaboration, enhance teamwork skills, and offer career opportunities.

The achievements in our department are as follows:

- ✓ Workshops
- ✓ Panels
- ✓ Excursions
- ✓ Talks
- ✓ Student Club Activities
- ✓ Competitions
- ✓ Seminars and Symposia





Career Opportunities

Graduates from the Department of Aviation Electrical and Electronics can work in aircraft factories or maintenance and repair workshops under the Ministry of Transportation. As air transportation increases in our country and private sector enterprises become involved in this field, the employment opportunities for graduates from the Department of Aviation Electrical and Electronics also expand.



Who Can Apply?

- ✓ Interested in aviation
- ✓ Interested in technology
- ✓ Curious about avionic systems
- ✓ Follows current aviation trends
- ✓ Wants to develop aviation skills
- Interested in aircraft maintenance topics
- ✓ Can generate innovative ideas
- ✓ Considering a career in this sector

“ In the ever-evolving world of aviation, we continuously improve ourselves in aircraft matters to prepare our students for the future.

ASSIST.PROF.BEDİA MERİH ÖZÇETİN
Department of Avionics Department Chair

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Double Major Opportunity

The purpose of the double major program is to enable students who excel in their major programs to also receive a diploma in a second field of study free of charge. Students with a general GPA of 2.90 out of 4.00 in their major program and ranking in the top 20% of their undergraduate program can start the second major diploma program free of charge.

Since our department is accredited by the Directorate General of Civil Aviation and has the status of Recognized School under SHT-147, our students can apply for double major programs in other departments, but double majoring from a different department to our department is not possible.

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Receiving education in both departments allows me to graduate with a well-rounded preparation in both technical and managerial aspects of the aviation sector. The technical knowledge and skills I acquire in the Aviation Electrical and Electronics department ensure the effective operation of critical systems of aircraft and aerial vehicles. On the other hand, the management skills I gain in the Aviation Management department enable me to better understand and direct the operational processes and strategic management of these systems.

Yaren KOÇ-Student

”



Industry Collaboration for a Strong Future

Our university places great importance on collaborating with public, private sector, and civil society organizations in its pursuit of excellence in education and research. These collaborations enable us to build a stronger future by sharing knowledge and resources, working together to achieve common goals, and sharing our expertise.



Begin Your Internship Journey and Shape Your Future!

In our department, we offer voluntary internships. Our students have the opportunity to reinforce the practical training they receive in TASK training sessions by participating in internship programs at leading companies in the aviation sector during their academic studies.





Research Projects

Grad. Res. Abdullah Can Al

Academics in the Project: Assist. Prof. Cansu NOBERİ, Grad. Res. Abdullah Can Al, Grad. Res. Tunay ACIMAN

Project Name: Detailed Analysis and Production of Transonic Rockets

Role in the Project: Researcher

Grad. Res. Abdullah Can AL

Academics in the Project: Prof. Dr. Osman Ergüven VATANDAŞ, Grad. Res. Abdullah Can AL, Grad. Res. Özlem YALÇIN

Project Name: Modeling of Unmanned Aerial Vehicles in Different Designs

Role in the Project: Researcher

Student Projects

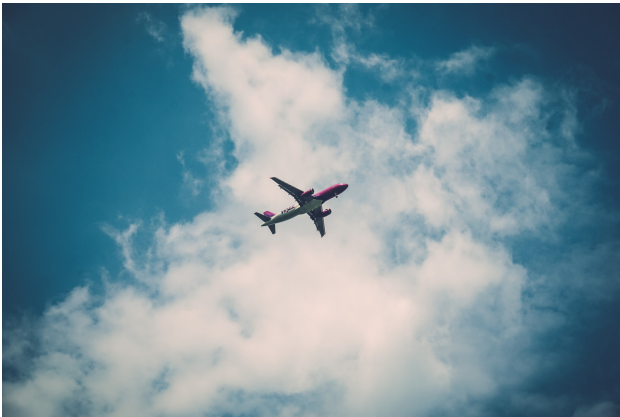
In our department, we place great importance on aviation and technology competitions and student projects. In 2022, we participated in 3 projects with our students, in 2023, we participated in 1 project, and in 2024, we participated in 4 projects together with our students. These projects are competition projects and are currently being developed in collaboration with our university's Technology Transfer Office. The aim is for our developed projects to contribute to both our students and the aviation sector.



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**The future is in
the skies.**

Mustafa Kemal ATATÜRK



DEPARTMENT OF AVIONICS

Department of Avionics

**For detailed information, you can
contact our department
chairperson.**

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