



EGE UNIVERSITY

AVIATION HIGHER VOCATIONAL SCHOOL

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SCHOOL

2020



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CONTENT

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ESTABLISHMENT

- Aviation Higher Vocational School (HVS) was established in 2015 and it is one of the ten HVS of Ege University.
- Aviation HVS has two departments;
 - Civil Aviation Management (2013)
 - Aircraft Technology (2010)
- both were transferred from EGE HVS.

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ESTABLISHMENT

- The first ideas for the establishment of an aviation education unit at Ege University started in April-2009.
- During the establishment phase, demands from the Ege Region and other regions were taken into account, and meetings were held with leading institutions and organizations of the aviation sector.



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ESTABLISHMENT

- After all, taking in consideration that both in Turkey and World aviation sector will keep phase of growth, Aviation HVS establishment realized.

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OUR MISSION, VISION and PRINCIPLES

- **Our mission** is to train certified and qualified personnel with aviation discipline, research-oriented, innovative, knowledgeable, initiative and responsible.
- **Our vision** is to become the leading aviation education and training center in the region and country by contributing to the development of the aviation sector with scientific studies and activities that will shape the aviation sector and by training qualified technical personnel that the aviation sector needs.

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OUR VISION, MISSION and PRINCIPLES



- **Our policy** is to act in accordance with our country and institutional values, science, universality and justice with academic staff, administrative staff, students and graduates.

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DEPARTMENTS

- Our school has two active departments:
 - Civil Aviation Management (CAM)
 - Aircraft Technology (ATECH)
- Both departments have compulsory English Prep Class for one year. After the English Prep Class there is two years academic education.



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SELECTION of STUDENTS

- Turkish higher education system is very centralized and there is a central exam for student selection to the undergraduate education. If the student gets enough score from this exam, then can be enrolled to the school.



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
A TECH	30	30	30	30	30	40	50	60	40	40
CAM	-	-	-	30	30	40	50	60	65	65



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SELECTION of STUDENTS

According to the data of

“The Measuring, Selection and Placement Center” - 2020;

- The Aircraft Technology is the department that receives students with the highest score (327.51) among state universities.
- The Civil Aviation Management is the department that receives students with the highest score (283.98) among state universities.





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DEPARTMENT of AIRCRAFT TECHNOLOGY

The training plan of ATECH, has been prepared so that students can work both in manufacturing and MRO organizations.

The Education Plan consists of a 1-year compulsory English Preparatory class, 4-semester academic training, on-the-job training program and summer internship program.





DEPARTMENT of CIVIL AVIATION MANAGEMENT

The CAM training plan has been prepared in such a way that students can work in relevant organizations as ground handling services, terminal services and flight operations specialists.

The Education Plan consists of a 1-year compulsory English Preparatory class, 4-semester academic training and summer internship program.

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EDUCATIONAL CONTENTS

FIRST SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Principles of Ataturk and Recent Turkish History I	2
2	Turkish Language I	2
3	Piston Engines	3
4	Physics	3
5	Mathematics	3
6	Computer	2
7	Electrical and Electronical Fundamentals	4
8	Technical Drawing	2
9	Advanced English I	4
10	Material Science in Aviation	2
11	Human Factors in Aviation	2
12	Aviation Fundamentals and Terminology	1

SECOND SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Principles of Ataturk and Recent Turkish History II	2
2	Turkish Language II	2
3	Aerodynamic	2
4	Machine Elements	2
5	Electronic Instrument Systems	3
6	Aviation Legislation	2
7	Air Vehicle Structures and Systems I	3
8	Turbine Engines	5
9	Advanced English II	4
10	Propeller	2
11	Occupational Practices I	1
12	Elective Courses <ul style="list-style-type: none"> • Sign Language • Entrepreneurship • University Life • Social Service Applications • Speaking • Employee Health and Workplace Safety • Academic Turkish (For foreign students) 	2

ATECH Education Plan

THIRD SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Machining Techniques	2
2	Air Vehicle Structures and Systems II	6
3	Air Vehicle Electrical and Electronical Systems I	2
4	Occupational Practices II	8
5	Aviation English I	4
6	Quality Management Systems	2
	Elective Courses	
7	<ul style="list-style-type: none"> • Computer Aided Design.....2 • Composite Technology I.....2 • Nondestructive Testing I.....2 • Helicopter Structures and Systems I.....6 	6

ATECH Education Plan

FOURTH SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Air Vehicle Structures and Systems III	6
2	Manufacturing Techniques	2
3	Air Vehicle Electrical and Electronical Systems II	2
4	Occupational Practices III	8
5	Aviation English II	4
6	Model Plane	2
	Elective Courses	
7	<ul style="list-style-type: none"> • Computer Aided Manufacturing.....2 • Composite Technology II.....2 • Nondestructive Testing II.....2 • Helicopter Structures and Systems II.....6 	6

CAM Education Plan

FIRST SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Principles of Ataturk and Recent Turkish History I	2
2	Turkish Language I	2
3	Introduction to Civil Aviation	4
4	Passenger Services I	4
5	Mathematics	3
6	Computer	3
7	Business Administration	4
8	Advanced English I	4
9	Vocational Elective <ul style="list-style-type: none"> • Flight Theory • Aviation Law • Model Aircraft Construction • World Cultures and Destinations 	2
10	Non-Vocational Elective <ul style="list-style-type: none"> • Basic First Aid • Accounting • Supply Chain Management • Academic Turkish (For foreign students) • University Life 	2

CAM Education Plan

SECOND SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Principles of Atatürk and Recent Turkish History II	2
2	Turkish Language II	2
3	Flight Operations	3
4	Passenger Services II	4
5	Airline Management	2
6	Principles of Economics	4
7	Advanced English II	4
8	Internship I	5
9	Vocational Elective <ul style="list-style-type: none"> • Cabin Services • Logistics Management • Aircraft Maintenance Management • Tourism 	2
10	Non-Vocational Elective <ul style="list-style-type: none"> • Marketing • Employee Health and Workplace Safety • Community Services • Innovation Management 	2

CAM Education Plan

THIRD SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Air Traffic Rules and Services	2
2	Ramp Services	4
3	Meteorology	3
4	Air Cargo Management	2
5	Operation and Performance I	4
6	Representation, Supervision and Management	4
7	Safety Management System (SMS)	3
8	Aviation English I	4
9	Vocational Elective <ul style="list-style-type: none"> • Flight Operations and Dispatch • CRS Applications • General Aviation • Economics of Transportation 	2
10	Non-Vocational Elective <ul style="list-style-type: none"> • Sign Language I • Entrepreneurship • Speaking (English) I • Quality Management System 	2

CAM Education Plan

FOURTH SEMESTRE		
	<u>Lesson</u>	<u>ECTS</u>
1	Airport Operations and Equipment	3
2	Communication	2
3	Aviation Security	2
4	Terminal Management	3
5	Operation and Performance II	4
6	Dangerous Goods and Regulations	3
7	Internship II	5
8	Aviation English I	4
9	Vocational Elective <ul style="list-style-type: none"> • Cost Management in Aviation • Heliport Management • UAV Applications • Human Factors in Aviation 	2
10	Non-Vocational Elective <ul style="list-style-type: none"> • Sign Language II • Speaking (English) II • Human Resources Management • Financial Management 	2



GENERAL VIEW of the SCHOOL



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FACILITIES

- **In the Ahmet Eroğlu education facility;**
- Hangar
- Tool Warehouse
- Machinery, Structural and Welding Workshop,
- Radiography Laboratory
- Non-Destructive Testing Laboratories,
- Measurement and Control Laboratory,
- Propulsion Systems Workshop,
- Composite Materials Laboratory,
- Avionic Laboratory,
- Computer Laboratory,
- Conference and Seminar Halls,
- Library, Study and Examination Hall,
- Classrooms,
- Offices,
- Canteen and Social Areas.

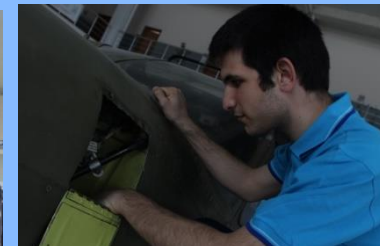
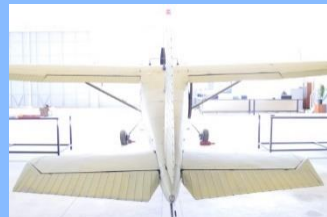
FACILITIES



Hangar has a total area of 1350m², its capacity can accommodate 4 general aviation aircraft.

- Standard 3-phase electricity 220V/380V-50Hz
- 15V-400Hz AC and 28V DC power supply
- Grounding line
- Compressed air line
- Waterline
- Heating, cooling and ventilation systems

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FACILITIES



Fluid penetrant, Magnetic particle, Ultrasonic, Vortex currents and Radiography (X-Ray) applications can be performed in Non-Destructive Testing (NDT) and Radiography Laboratories.

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The Propulsion Systems Workshop has two Continental IO 520 piston engines, GE J85 CAN-15 jet engine, GE J79 jet engine, Artouste II C turboshaft engine and various piston engines.



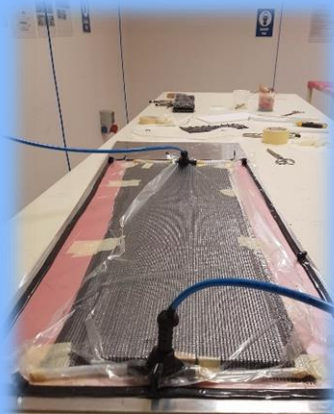
FACILITIES



In the Composite Laboratory, production and repair can be done by hand-molding and vacuum infusion methods.

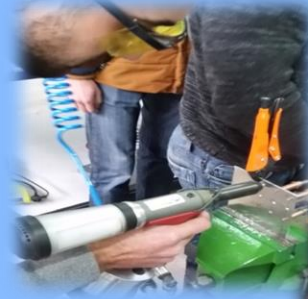
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FACILITIES



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In the Machine and Structural Workshop, there are pneumatic hand tools, CNC router and various machines.



In addition, our students make design projects with 3D printer.





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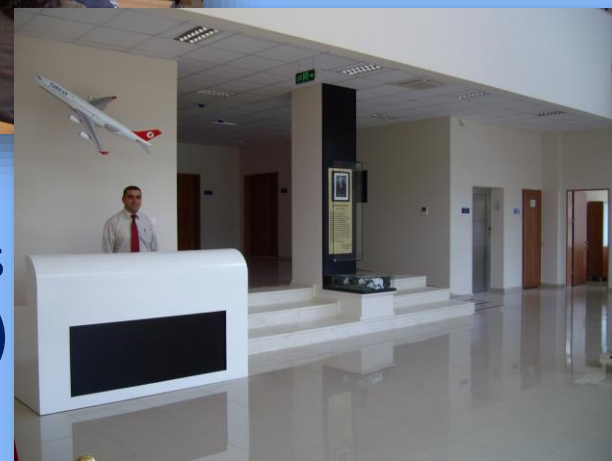
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FACILITIES

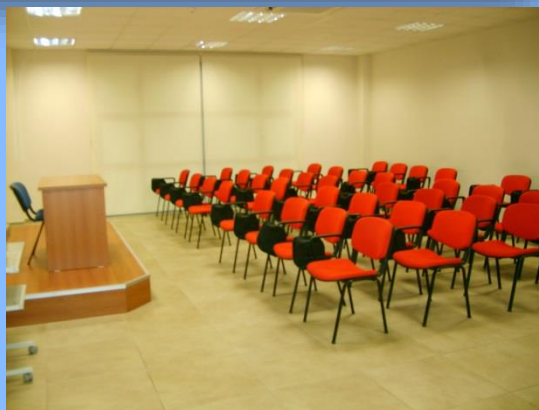
Conference Hall
(215 persons)



Entrance



3 classrooms
(40 students)



1 classroom
(80 students)



1 classroom
(100 students)

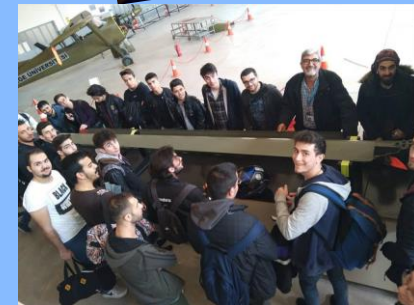
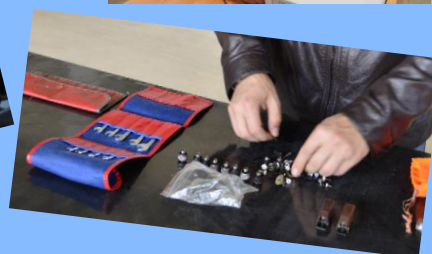


FACILITIES

- The facilities of our school, the workshops and laboratories of the Ege Higher Vocational School and the laboratories of the Ege University Faculty of Engineering are used in common.

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FACILITIES

• In addition, the Air Technical Schools Command Aircraft Maintenance School Command, National Defense University Air Petty Officer Higher Vocational School workshops and laboratories and the 3rd Land Aviation Regiment Command facilities are also used for the education of our school students.

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ACADEMIC STAFF

- **Our school has 5 academic staff.**
- In addition, academic staff from Ege Higher Vocational School, Ege University Faculty of Engineering and Air Technical Schools Command, 3rd Army Aviation Regiment Command, and specialized employees from various institutions and organizations related to aviation and the retired aviators are giving lectures in our school.

STRENGTHS of SCHOOL



- We are the first public university to receive the "**Recognized School Authorization Certificate**" from the **General Directorate of Civil Aviation** in all categories A1, A2, A3 and A4, in 2019.
- Advantages of this certificate are various but main of them are; Aircraft Technology graduates can be exempted from module exams and the duration of work for authorization is diminished to 2 years.



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Future Activities of the School

- All the academic staff of our school have UAV 0 license and are competent to provide UAV 0 training. UAV 0 training is planned to be started.
- In addition, application was made to obtain Heliport Operation Training Authority from the General Directorate of Civil Aviation.



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EVENTS

- In addition to the courses in the education plan, the following activities are organized to increase the knowledge and experience of the students.
- HANGAR journal,
- Weekly seminars,
- Scientific meetings and fairs,
- Sector visits,
- Courses,
- Social responsibility projects.



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EVENTS

- Airex Aviation Fair (October 2010)
- Global Aviation and Space Conference (October 2010)
- Aircraft Maintenance Area Cooperation Meeting (March 2011)
- Idef 2011, Defense Industry Fair (May 2011)
- Maintenance Repair Software Seminar (June 2011)
- Workshop on Advances in Aviation Industry in the World and Turkey (December 2011)
- Airex Aviation Fair (September 2012)
- I. Aviation Technology and Applications National Congress (2012)
- II. Aviation Technology and Applications National Congress (2013)
- III. Aviation Technology and Applications National Congress (2015)
- TÜBİTAK UAV competition (2016)
- IV. Aviation Technology and Applications National Congress (2017)
- TÜBİTAK UAV competition (2017)
- V. Aviation Technology and Applications National Congress (2020)



AVIATION TECHNOLOGY and APPLICATIONS NATIONAL CONGRESS (UHAT) POSTERS



AVIATION TECHNOLOGY and APPLICATIONS NATIONAL CONGRESS (UHAT - 2020)



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**5. ULUSAL HAVACILIK TEKNOLOJİSİ
VE
UYGULAMALARI KONGRESİ**

10-11 NİSAN 2020

**KONGRE
ANA
DESTEKÇİSİ**

İZMİR
detaylı bilgi uhat.ege.edu.tr



Airex'10



Airex'12



TÜHESFO'12



AVIATION WORKSHOP

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UHAT'12



UHAT'13



UHAT'15



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After Graduation

Aircraft Technology

- Enterprises engaged in aviation manufacturing,
- Airline companies,
- Aircraft Maintenance, Repair and Overhaul companies,
- Military Air Supply Maintenance Centers.

Civil Aviation Management

- Airline companies,
 - Terminal management companies,
 - Ground handling companies,
 - Logistics companies,
 - Aircraft Maintenance and Manufacturing companies.
-
- Both graduates of departments by entering to “Vertical Pass Exam” can enroll to undergraduate departments.



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SUPPORTERS

- Our school has been supported by many institutions, organizations and businesses since its establishment.
- Types of Supports;
 - Location and Building,
 - Material,
 - Planning,
 - Education,
 - Scholarship,
 - Internship.



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Location and Building;

- The location of the Ahmet Eroğlu Education Facility, where education and training activities are carried out, was donated to Ege University by Gaziemir Municipality.
- In this area, which was granted to the university, Ahmet Eroğlu Education Facility was built by Eroğlu İnşaat company and donated to Ege University on a turn-key basis.





Material Support;

• Various tools, devices, machines and tools have been donated by Boeing, ACA, TAI, TEI, THY Technic, MY Technic, Air and Land Forces Command to be used in the workshops and laboratories of the Ahmet Eroğlu Education Facility.

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TURKISH TECHNIC



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Planning, Education and Scholarship Support

- Aviation Technical Schools Command, 3rd Land Aviation Regiment Command, THY Technic., TAI, Turkish Airlines, Pegasus Airlines, Anadolu University, Erciyes University have supported the determination of the training plan and course contents of our departments.
- The support of companies for internship is provided through the Aerospace Cluster Association (ACA). ACA gives scholarships to our students.



ANADOLU ÜNİVERSİTESİ



TAI



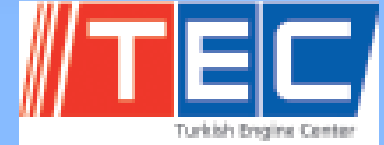
Internship Supports;



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TURKISH TECHNIC



SunExpress



atlasglobal



PEGASUS
AIRLINES



Onurair





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