



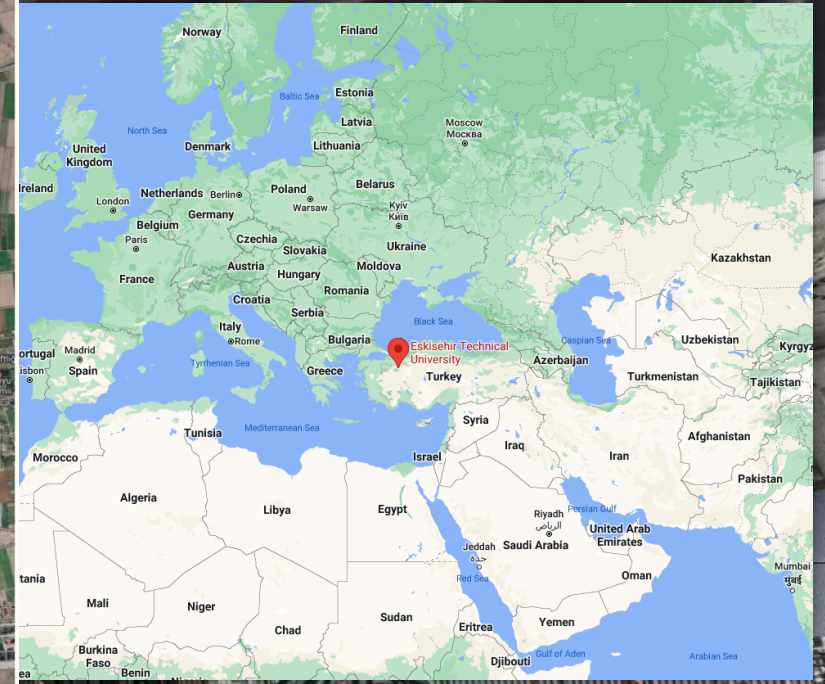
<https://eskisehir.edu.tr> (the university)
<https://hubf.eskisehir.edu.tr> (the faculty)
<https://hph.eskisehir.edu.tr> (the airport)

Overall Aviation Training System in Eskişehir Technical University

PUBLIC UNIVERSITY

Presenter: Enis T. Turgut, PhD (Vice Dean)

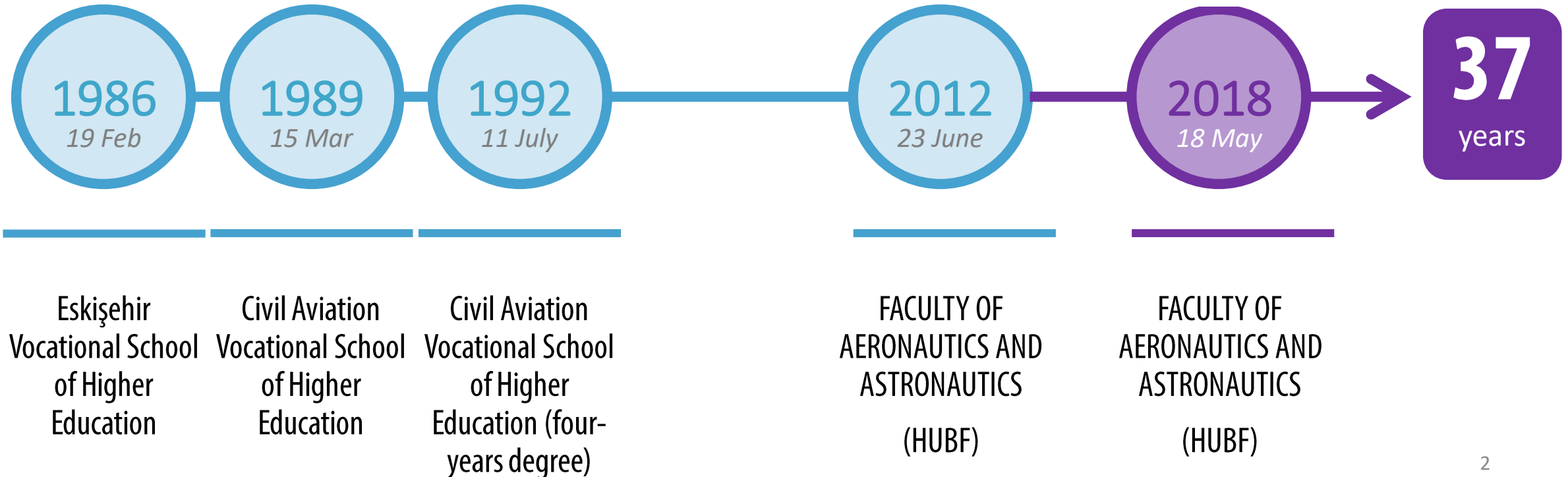
FACTORY OF AERONAUTICS AND ASTRONAUTICS (FAA)



HISTORY



With respect to the features and diversity of aviation programs and operational civil aviation capabilities, being the longest-established university, the ESTU has been positioned in a unique role in the systems of Turkish Higher Education and Civil Aviation. This role has mainly been carried out by the Faculty of Aeronautics and Astronautics (FAA), since 1986. Addressing **all of the areas of civil aviation** and upholding the latest regulations implemented by the civil aviation authorities such as the ICAO (International Civil Aviation Organization) and the EASA (European Union Aviation Safety Agency) the Faculty provides Bachelor's degree with the following programs; 1) Flight Training, 2) Air Traffic Control, 3) Aircraft Airframe and Powerplant, 4) Avionics, and 5) Aviation Management.



GRADUATE and UNDERGRADUATE PROGRAMS



- There are five undergraduate programs (~1200 active students)
- Duration: 4 years
- Optional English Preparatory year: 1 year
- Minimum 240 ECTS
- There are also 5 graduate programs (M.S., Ph.D)

Total of 86 Academician

- 14 Prof., PhD
- 10 Assoc. Prof., PhD
- 24 Assist. Prof. PhD
- 14 Lecturer
- 24 Research Assistant (of 5 PhD)
- 15 Instructor Pilot**
- 5 Air Traffic Controller**
- 3 Ground Controller**
- 27 Aircraft Maintenance Staff**

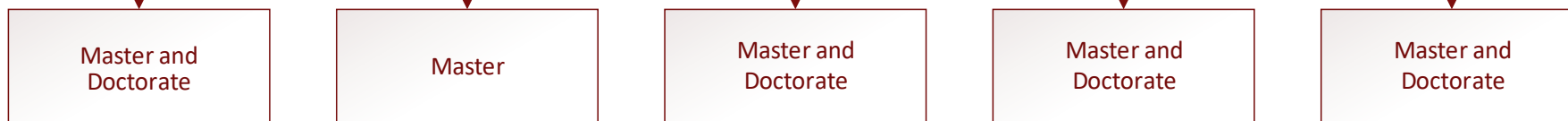


**ESTU
FAA**

UNDERGRADUATE PROGRAMS

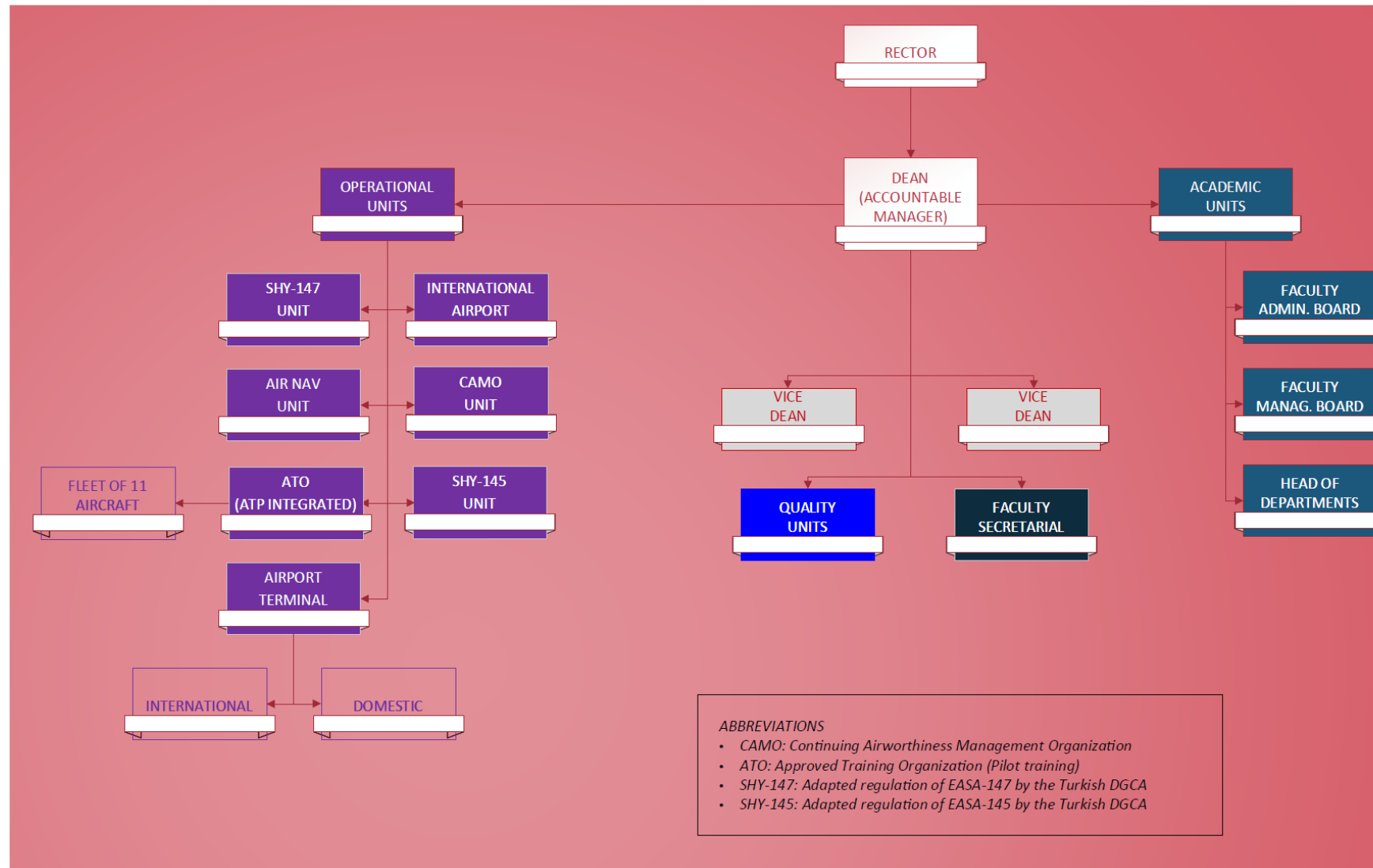


GRADUATE PROGRAMS



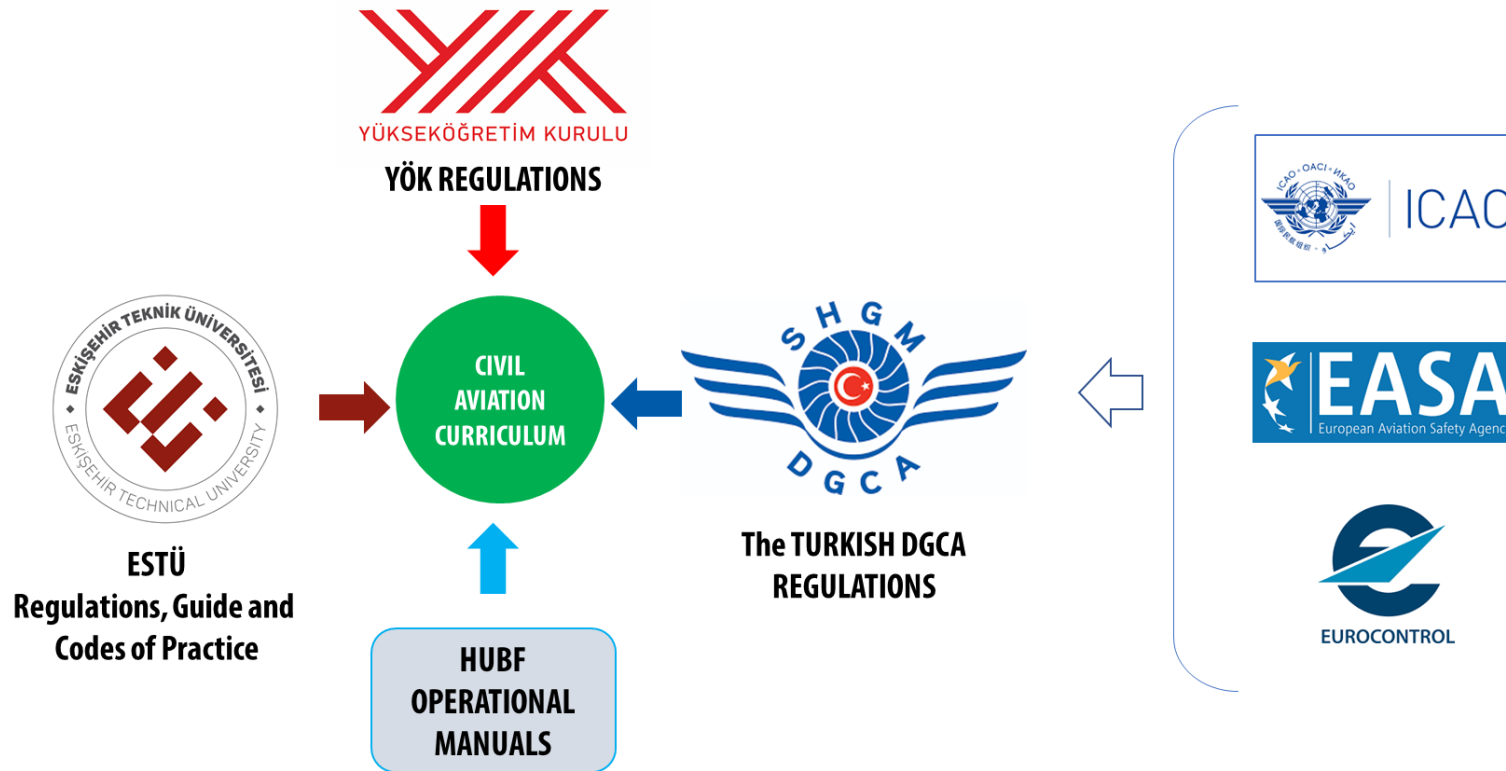
Organization Scheme

Faculty of Aeronautics and Astronautics



CURRICULUM

All departments are in accordance with the regulation and legislation of **YÖK**, the Turkish **DGCA** and **ESTU-HUBF** operational manuals



- **YÖK** (The Council of Higher Education (CoHE))
- **Turkish DGCA** (Directorate General of Civil Aviation)
- **HUBF** (Turkish acronym of Faculty of Aeronautics and Astronautics)

Internship:

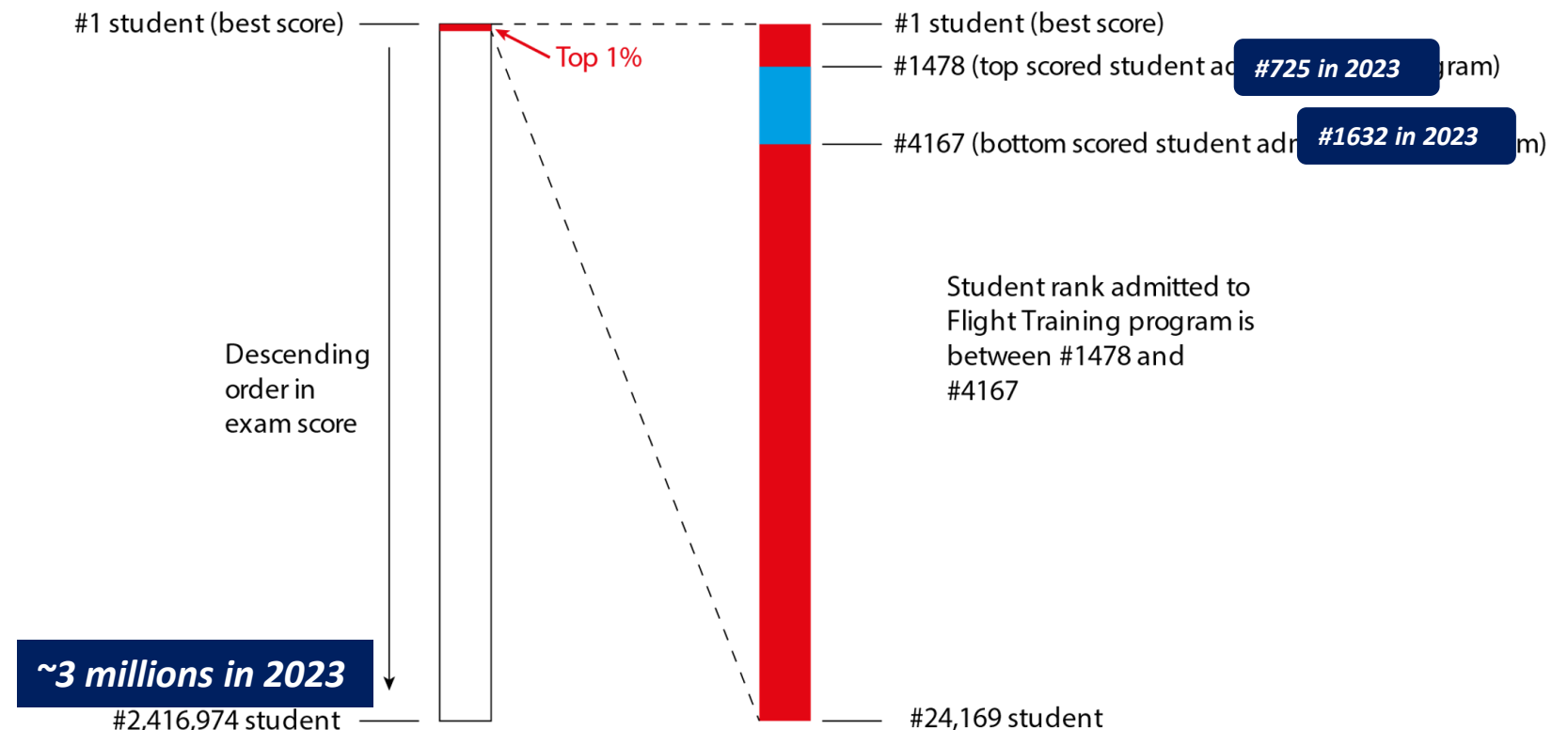
- Flight training (optional, 20 days)
- Avionics (40+20 days)
- Aircraft Airframe and Powerplant (40+20 days)
- Air Traffic Control (40 days)
- Aviation Management (optional, min. 20 days)



A brief description of admission to higher education in Turkey – Flight Training admission

- **Student Selection and Placement System** (*Turkish: Öğrenci Seçme ve Yerleştirme Sistemi, ÖSYS*) or **Higher Education Foundations Examination** (*Turkish: Yükseköğretim Kurumları Sınavı, YKS*), is a **standardized test** for the admission to **higher education** in **Turkey** [1]. Within the Turkish education system, **the only way to enter a university** is through this examination. **2.4 million high school graduates took the exam in 2021** [2].

Flight Training (FT) student admission



[1] https://en.wikipedia.org/wiki/Student_Selection_and_Placement_System

[2] https://dokuman.osym.gov.tr/pdfdokuman/2021/YKS/sayisal_veriler_28072021.pdf

FLIGHT TRAINING

8 University / 266 annual quota

Number of University (203):
129 State
74 Foundation



University name	State / Foundation	Paid / Scholarship / Free of charge	Faculty / Vocational High School	Program language	Quota (Student Number)	Student rank (low is better)*	Score (high is better)**	Flight lessons
Özyeğin	Foundation	scholarship ***	Faculty	English	5	#2,185	532.88	Subcontractor
Eskişehir Technical	State	Free of charge	Faculty	Turkish	19	#4,523	523.61	by itself
KTO Karatay	Foundation	scholarship ***	VHS	Turkish	5	#5,367	521.06	by itself
Bahçeşehir	Foundation	scholarship ***	VHS	English	6	#5,507	520.64	Subcontractor
Atılım	Foundation	scholarship ***	VHS	English	3	#7,442	515.56	by itself
Türk Hava Kurumu	Foundation	scholarship ***	Faculty	English	6	#7,731	514.93	by itself
İstanbul Okan	Foundation	scholarship ***	Faculty	English	6	#8,521	513.17	by itself
Antalya Bilim	Foundation	scholarship ***	VHS	Turkish	5	#14,418	502.11	Subcontractor
Özyeğin	Foundation	paid	Faculty	English	31	#186,062	332.92	Subcontractor
Bahçeşehir	Foundation	paid	VHS	English	34	#257,821	298.66	Subcontractor
Atılım	Foundation	paid	VHS	English	22	#366,133	263.8	by itself
İstanbul Okan	Foundation	paid	Faculty	English	34	#461,114	242.93	by itself
Türk Hava Kurumu	Foundation	paid	Faculty	English	34	#482,534	239.01	by itself
Antalya Bilim	Foundation	paid	VHS	Turkish	28	#571,319	225.6	Subcontractor
KTO Karatay	Foundation	paid	VHS	Turkish	28	#620,432	219.74	by itself



by 2020 numbers

* the rank of the last student, of 2.4 million student, with the lowest score in the relevant program

** the score of the "last student with the lowest score" in the relevant program

*** scholarship: only flight training price are free of charge for 100% covered students. The remaining part of the training is paid

Indicate paid programs

FLEET

5 Cessna 172



FLIGHT TRAINING CURRICULUM

A total of 240 ECTS

ATP Integrated



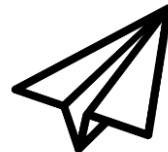
Easy Access Rules for Flight Crew
Licencing (Part-FCL)

ANNEX I (Part-FCL)
Appendices to Annex I

Appendix 3 – Training courses for the issue of a CPL and an ATPL

Regulation (EU) 2020/359

	FALL	SPRING	SUMMER
1th year	1. PERIOD / 1. PHASE	1. PERIOD / 2. PHASE	NONE
2nd year	1. PERIOD / 3. PHASE	2. PERIOD / 1. PHASE	2. PERIOD / 2. PHASE
3rd year	2. PERIOD / 3. PHASE	3. PERIOD / 1. PHASE	3. PERIOD / 2. PHASE
4th year	3. PERIOD / 3. PHASE	3. PERIOD / 4. PHASE	



3. PERIOD / 4. PHASE		
PLT 462	Normal Procedures III	18+0 3,0
PLT 464	Emergency Procedures III	12+0 1,5
PLT 468	Introduction to Aircraft Types III	24+0 1,5
PLT 470	Standard Operation Procedures III	18+0 3,0
PLT 472	Practice in Flight VII	0+11 6,0
		15,0
PLT 387	Instrument Flight Charts	18+0 2,5
		30,0
		30,0
		30,0
		30,0
		30,0
TÜR 126	Turkish Revolution II	2+0 2,0
	Turkish Language II	2+0 2,0
		30,0

- 86:30 hours with Cessna 172
- 71:00 hours with TB-20
- 43:00 hours simulator (FNPT II)
- 15:00 hours MCC
- 12:00 hours with MEP

A total of 227:30 flight+ simulator training

A total of 1220 hours of theoretical course



More than the EASA minimum requirements

Stages

- Higher Education Foundations Examination
- Pre-registiration (generally 300-400 applicants)
- Special Talent Examination
- Final Registiration (15 student)

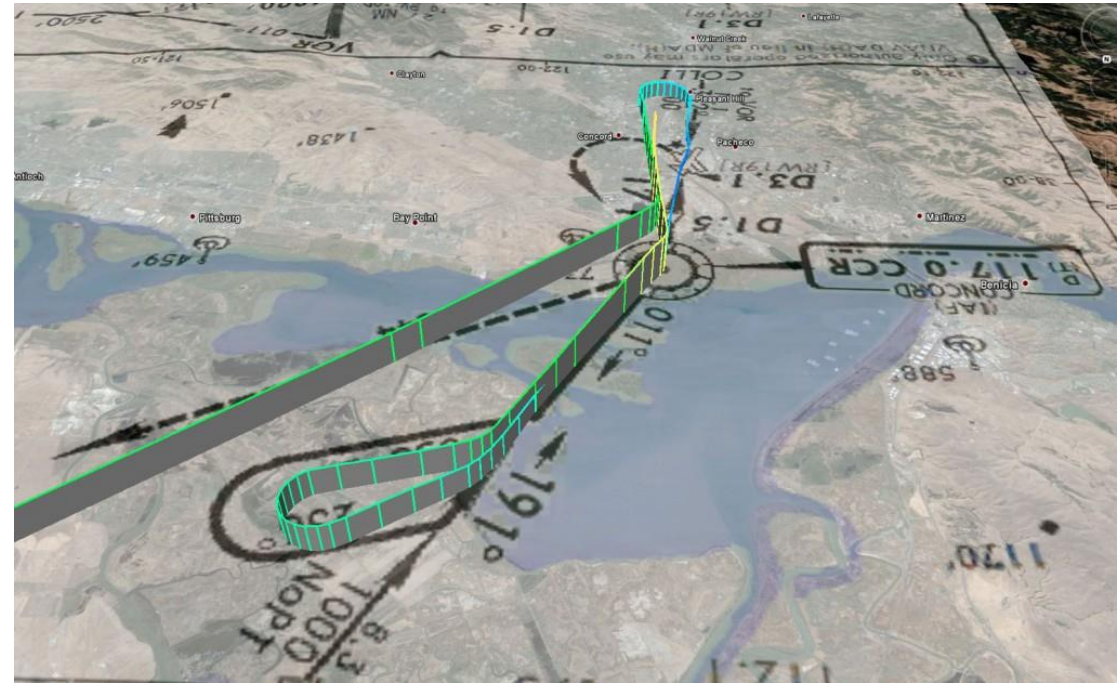
Eligibility

Pre-registiration:

- Higher Education Foundations Examination (must be greater than a certain score)
- Must be younger than 21 years old.
- Medical report (ICAO Annex-1; Class 3 approved hospital)
- No speech problem

Final registiration:

- Successfully pass the special talent examination



AIR TRAFFIC CONTROL

Training

- Theoretical courses
- Practical courses (one-by-one in simulator)

Duration

- Optional English Preparatory year: 1 year
- Theoretical and practical courses (minimum 240 ECTS)
- Internship



AIRFRAME AND POWERPLANT

6 University / 322 annual quota



University name	State / Foundation	Paid / Scholarship / Free of charge	Faculty / Vocational High School	Program language	Quota (Student Number)	Student rank (low is better)*	Score (high is better)**	Year of establishment
Eskişehir Teknik	State	Free of charge	Faculty	Turkish	62	72,241	429.73	1986
Atılım	Foundation	Scholarship	VHS	English	5	77,027	424.24	<2017
Kocaeli	State	Free of charge	Faculty	Turkish	41	92,860	407.09	<2017
Erciyes	State	Free of charge	Faculty	Turkish	62	101,533	398.1	<2017
<i>Erciyes</i>	<i>State</i>	<i>Paid (night time)</i>	<i>Faculty</i>	<i>Turkish</i>	<i>41</i>	<i>131,460</i>	<i>370.82</i>	<i><2017</i>
Kapadokya	Foundation	Scholarship	VHS	Turkish	7	155,407	352.5	2018
Selçuk	State	Free of charge	VHS	Turkish	41	162,477	347.55	<2017
<i>Atılım</i>	<i>Foundation</i>	<i>Scholarship (25%)</i>	<i>VHS</i>	<i>English</i>	<i>25</i>	<i>350,397</i>	<i>267.93</i>	<i><2017</i>
<i>Kapadokya</i>	<i>Foundation</i>	<i>Paid (25%)</i>	<i>VHS</i>	<i>Turkish</i>	<i>38</i>	<i>465,420</i>	<i>242.14</i>	<i>2018</i>

by 2020 numbers

* the rank of the last student, of 2.4 million student, with the lowest score in the relevant program

** the score of the last student with the lowest score in the relevant program

Each program is 4-year program

Indicate paid programs





University name	State / Foundation	Paid / Scholarship / Free of charge	Faculty / Vocational High School	Program language	Quota (Student Number)	Student rank (low is better)*	Score (high is better)**	Year of establishment
Yıldız Teknik	State	Free of charge	Faculty	English	52	68,544	434.04	2019
Eskişehir Teknik	State	Free of charge	Faculty	Turkish	62	84,368	416.17	1986
Kocaeli	State	Free of charge	Faculty	Turkish	52	112,711	387.29	<2017
Erciyes	State	Free of charge	Faculty	Turkish	62	140,074	363.91	<2017
<i>Erciyes</i>	<i>State</i>	<i>Paid (night time)</i>	<i>Faculty</i>	<i>Turkish</i>	<i>41</i>	<i>168,375</i>	<i>343.7</i>	<i><2017</i>
Kapadokya	Foundation	Scholarship	VHS	Turkish	7	175,129	339.43	2018
<i>Kapadokya</i>	<i>Foundation</i>	<i>Scholarship (25%)</i>	<i>VHS</i>	<i>Turkish</i>	<i>38</i>	<i>632,300</i>	<i>218.23</i>	<i>2018</i>
Niğantaşı	Foundation	Scholarship	VHS	Turkish	8	190,609	330.31	<2017
<i>Niğantaşı</i>	<i>Foundation</i>	<i>Paid (50%)</i>	<i>VHS</i>	<i>Turkish</i>	<i>45</i>	<i>602,490</i>	<i>221.88</i>	<i>2020</i>
<i>Niğantaşı</i>	<i>Foundation</i>	<i>Paid</i>	<i>VHS</i>	<i>Turkish</i>	<i>1</i>	<i>621,804</i>	<i>219.57</i>	<i>2020</i>
İskenderun Teknik	State	Free of charge	Faculty	Turkish	41	286,300	287.98	2020
Fırat	State	Free of charge	Faculty	Turkish	52	295,092	284.88	<2017

by 2020 numbers

* the rank of the last student, of 2.4 million student, with the lowest score in the relevant program

** the score of the last student with the lowest score in the relevant program

Each program is 4-year program

Indicate paid programs



AVIATION MANAGEMENT

35 University / 3062 annual quota

University name	State / Foundation	Paid / Scholarship / Free of charge	Faculty / Vocational High School	Program language	Quota (Student Number)	Student rank (low is better)*	Score (high is better) **	Year of establishment
Özyeğin	Foundation	Scholarship	Faculty	English	6	28,724	406.39	older than 2017
Türk Hava Kurumu	Foundation	Scholarship	Faculty	English	13	63,015	382.89	older than 2017
İstanbul Bilgi	Foundation	Scholarship	VHS	Turkish	6	70,827	378.64	older than 2017
İstanbul Aydın	Foundation	Scholarship	Faculty	English	10	117,322	356.52	older than 2017
Eskişehir Teknik	State	Free of charge	Faculty	Turkish	62	119,165	355.71	1986
Atılım	Foundation	Scholarship	VHS	English	5	134,609	349.14	older than 2017
İstanbul Okan	Foundation	Scholarship	Faculty	Turkish	5	153,379	341.7	2018
İstanbul Ticaret	Foundation	Scholarship	Faculty	Turkish	11	155,171	341.03	older than 2017
Kocaeli	State	Free of charge	Faculty	Turkish	72	164,919	337.36	older than 2017
İstanbul Medipol	Foundation	Scholarship	Faculty	Turkish	15	177,894	332.76	2019
Erciyes	State	Free of charge	Faculty	Turkish	72	190,100	328.6	older than 2017
İstanbul Gelişim	Foundation	Scholarship	Faculty	English	11	191,715	328.07	older than 2017

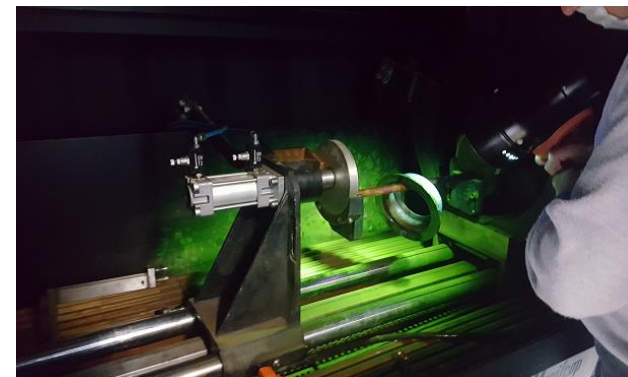
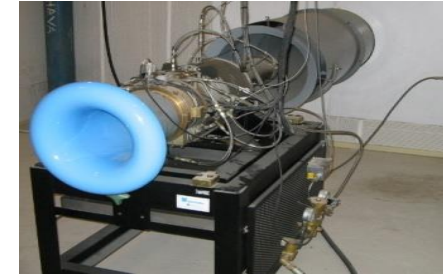
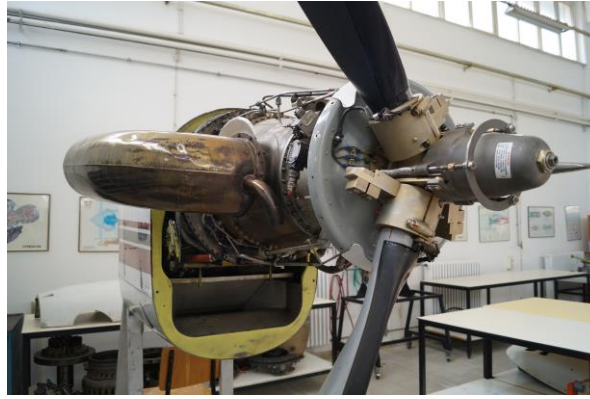
University name	State / Foundation	Paid / Scholarship / Free of charge	Faculty / Vocational High School	Program language	Quota (Student Number)	Student rank (low is better)*	Score (high is better) **	Year of establishment
Özyeğin	Foundation	Scholarship	Faculty	English	6	28,724	406.39	older than 2017
Türk Hava Kurumu	Foundation	Scholarship	Faculty	English	13	63,015	382.89	older than 2017
İstanbul Bilgi	Foundation	Scholarship	VHS	Turkish	6	70,827	378.64	older than 2017
İstanbul Aydın	Foundation	Scholarship	Faculty	English	10	117,322	356.52	older than 2017
Eskişehir Teknik	State	Free of charge	Faculty	Turkish	62	119,165	355.71	older than 2017
Atılım	Foundation	Scholarship	VHS	English	5	134,609	349.14	older than 2017
İstanbul Okan	Foundation	Scholarship	Faculty	Turkish	5	153,379	341.7	2018
İstanbul Ticaret	Foundation	Scholarship	Faculty	Turkish	11	155,171	341.03	older than 2017
Kocaeli	State	Free of charge	Faculty	Turkish	72	164,919	337.36	older than 2017
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Erciyes	State	Free of charge	Faculty	Turkish	72	190,100	328.6	older than 2017
İstanbul Gelişim	Foundation	Scholarship	Faculty	English	11	191,715	328.07	older than 2017
Kocaeli	State	Paid (night)	Faculty	Turkish	62	218,681	319.55	older than 2017
İstanbul Gelişim	Foundation	Scholarship	Faculty	Turkish	11	225,764	317.42	older than 2017
Nispetiye	Foundation	Scholarship	Faculty	English	10	227,997	316.76	older than 2017
Nispetiye Erbakan	State	Free of charge	Faculty	Turkish	72	250,661	310.43	older than 2017
Muğla Sıkıyman	State	Free of charge	VHS	Turkish	72	254,666	309.35	older than 2017
Beşiktaş	Foundation	Scholarship	VHS	English	5	259,329	308.14	older than 2017
Alanya Alaaddin Keykubat	State	Free of charge	Faculty	Turkish	62	262,890	307.18	2019
Gaziantep	State	Free of charge	Faculty	English	62	269,366	305.51	2018
Nisantasiye	Foundation	Scholarship	Faculty	Turkish	9	271,609	304.86	older than 2017
Erciyes	State	Paid (night)	Faculty	Turkish	62	272,736	304.65	older than 2017
Bakırköy	State	Free of charge	VHS	Turkish	62	292,606	298.87	2018
İstanbul Arel	Foundation	Scholarship	Faculty	Turkish	6	296,611	298.87	2020
Selçuk	State	Free of charge	VHS	Turkish	72	298,849	298.36	2018
Süleyman Demirel	State	Free of charge	VHS	Turkish	41	305,847	296.74	2019
İstanbul Gelişim	Foundation	Scholarship	VHS	Turkish	11	309,510	295.91	older than 2017
Samsun	State	Free of charge	VHS	Turkish	72	312,716	295.17	older than 2017
İstanbul Ayrımsaray	Foundation	Scholarship	Faculty	Turkish	9	326,633	292.14	2020
İkinci Eylül Teknik	State	Free of charge	Faculty	Turkish	72	331,669	291.05	older than 2017
Nispetiye Erbakan	State	Paid (night)	Faculty	Turkish	72	362,546	286.9	older than 2017
Kastamonu	State	Free of charge	VHS	Turkish	62	368,216	283.58	2018
Kapadokya	Foundation	Scholarship	VHS	Turkish	9	373,229	282.59	2020
İstanbul Rumeli	Foundation	Scholarship	Faculty	Turkish	9	420,057	274.11	2020
Amasya	State	Free of charge	Faculty	Turkish	41	420,531	274.03	2020
İstanbul Teknik	State	Paid (night)	Faculty	Turkish	72	426,405	273.05	older than 2017
Özyeğin	Foundation	Paid (50%)	Faculty	English	35	432,885	272.96	older than 2017
İstanbul Esenyurt	Foundation	Scholarship	Faculty	Turkish	9	447,235	269.6	2020
Kastamonu	State	Paid (night)	VHS	Turkish	62	475,238	265.15	2019
Diğer	State	Free of charge	VHS	Turkish	72	480,870	264.28	2018
Erişim Binalı Yıldırım	State	Free of charge	VHS	Turkish	62	492,836	262.5	older than 2017
Türk Hava Kurumu	Foundation	Paid (50%)	Faculty	English	59	526,184	259.77	2019
Gümüşhane	State	Free of charge	VHS	Turkish	41	527,077	257.53	2020
İstanbul Aydın	Foundation	Paid (50%)	Faculty	English	55	555,591	253.64	older than 2017
Nisantasiye	Foundation	Paid	Faculty	English	1	582,114	250.3	2020
Atılım	Foundation	Paid (50%)	VHS	English	25	600,030	247.94	older than 2017
İstanbul Ticaret	Foundation	Paid (50%)	Faculty	Turkish	59	646,799	242.31	older than 2017
İğdır	State	Free of charge	Faculty	Turkish	52	672,813	239.34	2019
İstanbul Bilgi	Foundation	Paid (50%)	VHS	Turkish	29	745,033	231.65	older than 2017
İstanbul Gelişim	Foundation	Paid (50%)	Faculty	Turkish	58	808,538	225.62	older than 2017
Türk Hava Kurumu	Foundation	Paid	Faculty	English	8	830,560	223.7	2018
İstanbul Gelişim	Foundation	Paid (50%)	Faculty	English	59	837,598	212.79	older than 2017
Beşiktaş	Foundation	Paid (50%)	VHS	English	25	943,511	213.26	older than 2017
Anadolu	State	Paid (distance learning)	Faculty	Turkish	820	956,111	211.55	older than 2017
İstanbul Gelişim	Foundation	Paid	Faculty	Turkish	1	988,730	199.74	2020
Nisantasiye	Foundation	Paid (50%)	Faculty	Turkish	47	996,094	194.61	2020
Nisantasiye	Foundation	Paid	Faculty	Turkish	-	-	-	2020
İstanbul Arel	Foundation	Paid (50%)	Faculty	Turkish	21	short	short	2020
İstanbul Ayrımsaray	Foundation	Paid (50%)	Faculty	Turkish	26	short	short	2020
İstanbul Esenyurt	Foundation	Paid (50%)	Faculty	Turkish	2	short	short	2020
İstanbul Gelişim	Foundation	Paid (50%)	VHS	Turkish	21	short	short	older than 2017
İstanbul Okan	Foundation	Paid (50%)	Faculty	Turkish	15	short	short	2018
İstanbul Rumeli	Foundation	Paid	Faculty	Turkish	1	short	short	2020
Kapadokya	Foundation	Paid (50%)	VHS	Turkish	13	short	short	2020
Nisantasiye	Foundation	Paid (50%)	Faculty	English	47	short	short	2020

Indicate paid programs

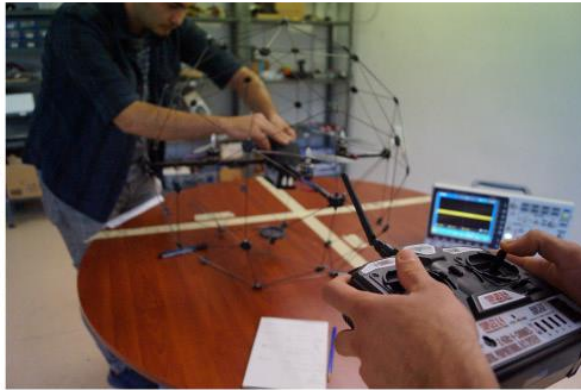
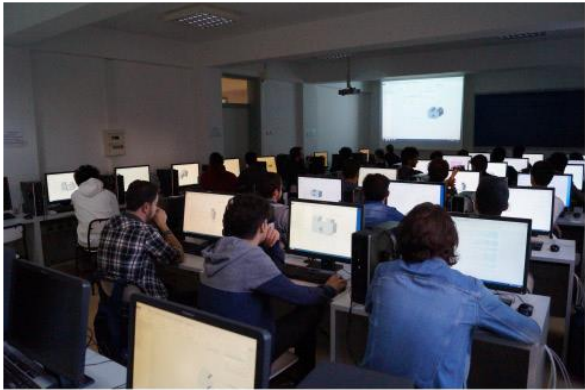


UNITS AND RESOURCES

- Computer Labs.
- Aircraft Structure Material Lab.
- Turbojet Engine Testcell
- NDI Lab.
- Electrical and Electronics Lab.
- Hydraulic Lab.
- Aerodynamic Lab.
- Electro-technic Lab.
- Communication Lab.
- Airframe Workshop
- Engine Workshop



UNITS AND RESOURCES (MAINTENANCE)



FLIGHT SIMULATORS

	SIM. MODEL	AIRCRAFT – ENGINE	SIMULATOR TYPE
ALSIM	AL200MCC	TB-20 (SINGLE ENGINE PISTON)	FNPT II
		(MULTI ENGINE TURBINE)	FNPT II - MCC
ENTROL	A02	TB-20 (SINGLE ENGINE PISTON)	FNPT II

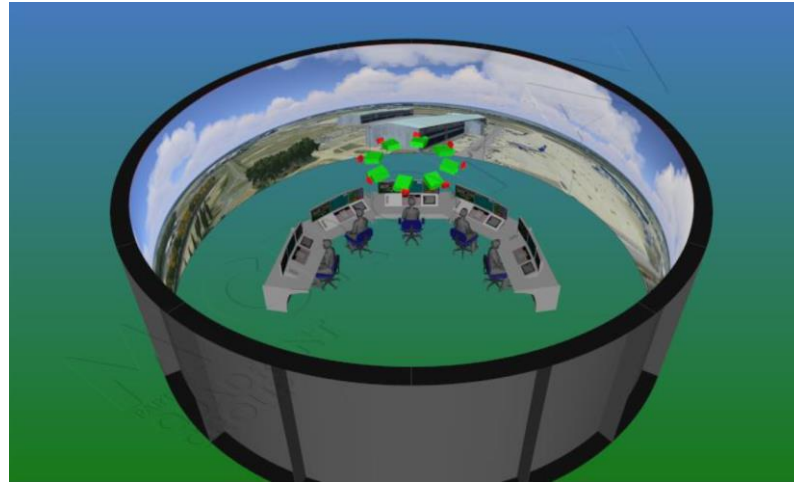


AERIAL CONTROL SIMULATOR

- 360 degree 10 projections
- 4 x ATC Aerial Controller Position
- 2 x ATC Aerial Pilot Position
- 1 x ATC Aerial Practice Preperation Position

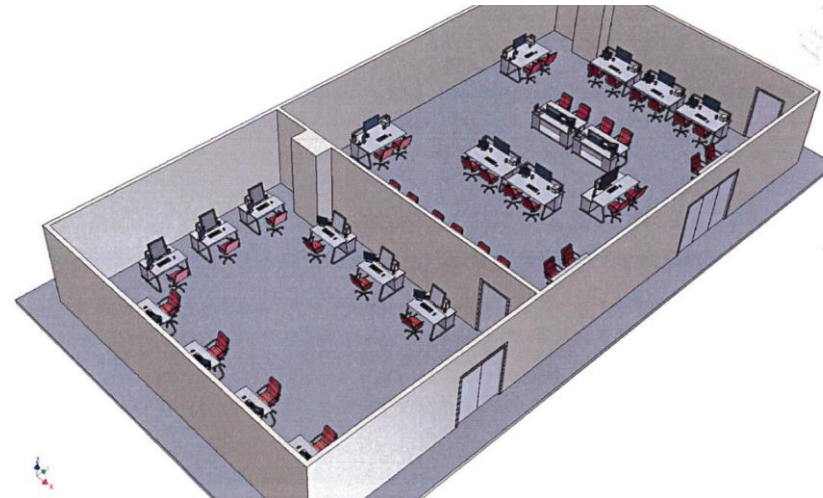
MicroNav BEST 360-degree-projection aerodrome simulator system supported by 10 high-definition projectors capable of modeling of aircraft, ground vehicles, and definition of the wide range of aircraft performances.

The system also includes Fast Airport Builder (FAB) which allows realistic modeling of airport and airspace elements.



RADAR SIMULATOR

- 12 x ATC Radar Controller Position
- 12 x ATC Radar Pilot Position
- 1 x ATC Radar Practice Preparation Position
- 1 x Work Station (Administrator)
- 1 x Visual Progress System





Erasmus+

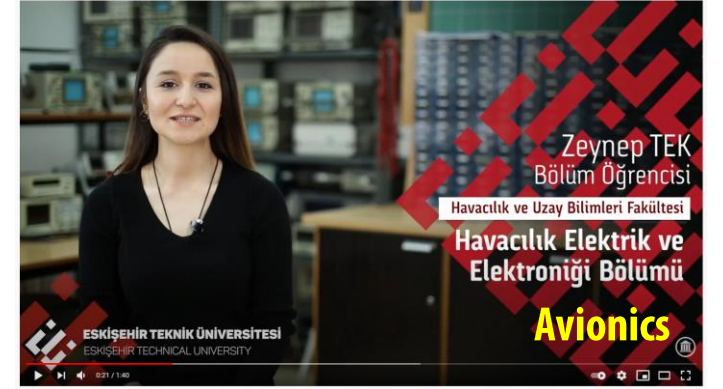


COUNTRY	CITY	UNIVERSITY
CZECH REPUBLIC	PARDUBICE	UNIVERSITY OF PARDUBICE
ESTONIA	TARTU	ESTONIAN AVIATION ACADEMY
LITHUANIA	KAUNAS	KAUNAS UNIVERSITY OF APPLIED ENGINEERING SCIENCES
SPAIN	MADRID	UNIVESIDAD POLITECNICA DE MADRID
POLAND	CZESTOCHOWA	CZESTOCHOWA UNIVERSITY OF TECHNOLOGY
POLAND	RZESZOW	RZESZOW UNIVERSITY OF TECHNOLOGY
FRANCE	TOULOUSE	TOULOUSE NATIOANL SCHOOL OF CIVIL AVIATION
PORTUGAL	LISBON	LISBOA HIGHER INSTITUTE OF EDUCATION AND SCIENCE
SLOVAKIA	ZİLİNA	UNIVERSITY OF ZILINA



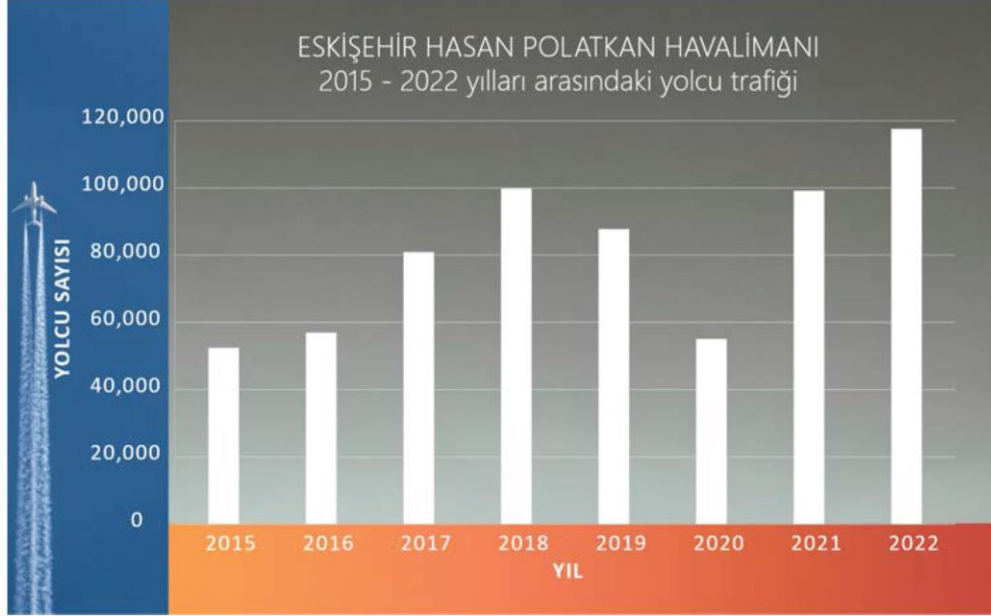
ALUMNIES

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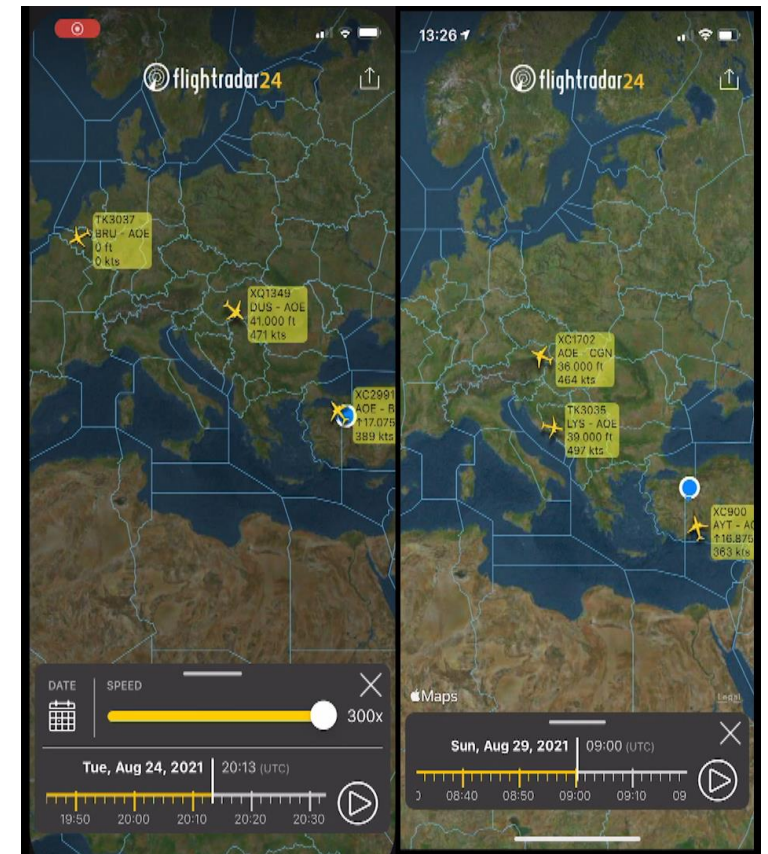


UNITS

ESKİŞEHİR HASAN POLATKAN AIRPORT



AOE / LTBY





APPROVALS



- SHY-147 Maintenance Training Organisation / Basic Training (HEE & UGMB) ([Adaptation of EASA Part 147](#))
- SHY-147 Maintenance Training Organisation / Type Training
- SHY-145 Maintenance Organisation Approvals ([Adaptation of EASA Part 145](#))
- SHY-M Continuing airworthiness ([Adaptation of EASA Part M](#))
- SHT-66L-HS Language Examiner
- SHT-ORA ATO Organization Requirements for Aircrew (Pilot) ([Adaptation of EASA Part ORA](#))
- SHT-ATCO/EĞİTİM Air Traffic Controllers (ATC) ([Adaptation of EASA Part ATCO](#))
- Domestic and International Terminal Operation
- International Airport Operation
- Airport Standards and Safety Education Organization
- SHY-6B General Aviation Operation Approvals

AVIATION COURSES

I) ATC COURSES

II) AIR TRANSPORT COURSES

- Introduction to Air Transportation (AIRTRANSPORT-101)
- Fundamentals of Air Transport Management (AIRTRANSPORT-102)

III) AIRPORT MANAGEMENT COURSES

- Airport Management (AIRPORT-101)
- Airport Planning and Management (AIRPORT-102)
- Airport Equipment and Operations (AIRPORT-103)
- Airport Service Development and Marketing (AIRPORT-104)
- Crisis Management and Airport Emergency Response Planning Training (AIRPORT-105)

IV) AIRLINE MANAGEMENT COURSES

- Airline Management (AIRLINE-101)
- Airline Business Models and Strategy (AIRLINE-102)

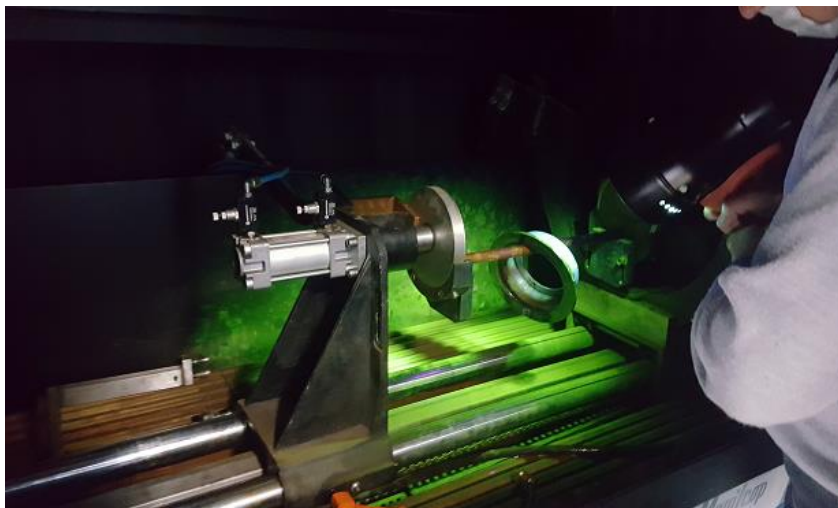
V) AVIATION SAFETY COURSES

- Safety Management System (SAFETY-101)
- Human Factors in Aviation (SAFETY-102)
- Crew Resource Management (SAFETY-103)

VI) SUSTAINABLE AVIATION COURSES

- Thermo-economic/environmental Analyses for Aircraft Systems (SUSAV-101)
- Life Cycle Analysis in Aviation (SUSAV-102)
- Environmental Impact of Aircraft (SUSAV-103)
- Fundamentals of Sustainable Aviation (SUSAV-104)

- Penetrant Liquid
- Magnetic Particle
- Eddy Current



RESEARCH AREAS

All these visionary thinking and planning efforts as well as the infrastructure and equipment capabilities of ESTU in civil aviation has led to build up of a strong operational experience and to intensify aviation knowledge and management skills under an academic discipline. It should also be noted that these gains and achievements promote research studies in to a much higher level. In this sense, [the main research topics currently studied or the ones having potential to be explored](#), by the ESTU in the civil aviation area involve a number of [multi-disciplinary](#) as well as innovative concepts. These concepts can briefly be listed as follows:

- [Airspace Capacity](#)/Delay Modelling and Optimization
- Flight Efficiency, Flight Procedures ([Continuous Descent Approach](#)/Operations)
- [UAVs and Vertical Aviation](#) (Design, Propulsion, Control, Battery System, Integration into Air Traffic Management System)
- [More Electrical Aircraft](#), Electric/Hybrid Propulsion
- [Climate neutral aviation, Environmental Impact](#) of Commercial and General Aviation Aircraft (Characterization of Particulate Matter, Trace Elements, and Gaseous Emissions, Replacement of Leaded Fuels
- [Sustainable Aviation Fuels](#), ATM procedures)
- [Advanced Materials](#) for Airframe and Powerplant
- [Aviation Safety](#)
- [Emerging Role of Small Scaled Airports](#) and Regional Aviation in New Post-pandemic World, A Step to Contacless Journeys



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