EGE UNIVERSITY AVIATION VOCATIONAL SCHOOL

Aircraft Technology Associate Degree Curriculum 1. H. Year

Course Code	Course Name	T	U	L	Credit	Ects
ATA101 Atatürk's principles and History of Revolution		2	0	0	2	2

Course Content: Basic concepts, reasons of collapse of the Ottoman Empire, Turkish renewal movements, I. World War II, Turkish national struggle.

Course Code	Course Name	T	U	L	Credit	Ects
SGHUÇK-1.1	S. G AIRCRAFT-1.1 (Lesson 1)	-	-	-	-	4
YDI101	Foreign language-1	4	0	0	4	4

Course Content Improve English listening, speaking and writing skills

UTP115	Advance English-1	4	0	0	4	4

Course Content: Improve English listening, speaking and writing skills

Course Code		T	U	L	Credit	Ects
SGHUÇK-1.2	S. G AIRCRAFT-1.2 (Lesson 1)	-	-	-	-	3
BIL103	Computer	3	0	0	3	3

Course Content: System volume, input/output devices, storage, computer software: System software and application software, computer communication and networks, database systems, the development of information systems, Microsoft's application internet and Internet services, computer hardware to learn the basic concepts of computers, including Helps

UTP117	Computer	3	0	0	3	3

Course Content: Learning about the basic concepts of computers including Internet and Internet services, Computer hardware: System unit, input/output devices, storage, computer software: System software and application software, computer communication and networks, database systems, development of information systems, application of Microsoft Word, Excel and Power Point.

Course Code	Course Name	T	U	L	Credit	Ects
TUR101	Turkish language 1	2	0	0	2	2

Course Content: What is language, language thought folks literary cultural relationship, types of language, types of language The language of the earth and the place between the Turkic languages, the historical periods of Turkish language, the alphabetics used by the Turks, the voices and classification in Turkey, the characteristics of Turkic, the syntax features of Turkey, the Semantic features of language,

Course Code	Course Name	T	U	L	Credit	Ects
UTP101	Math	3	0	0	3	3

Course Content: Prograsing the importance of mathematics for the technical program, the student's own program. In particular, underlining the issues that should be well aware of, and making professional practices on these subjects.

Course Code	Course Name	T	U	L	Credit	Ects
UTP103	Measuring technique	2	0	0	2	2

Course Content: The course is given topics related to geometric measurement, tool measurement, tool control and tolerance

Course Code	Course Name	T	U	L	Credit	Ects

Course Code	Course Name	T	U	L	Credit	Ects
UTP105	**Scientific first in technology.**	3	0	0	3	3

Course Content: Scalar and vector magnitudes, unit systems; Force, junction force, moment; Balance Conditions of balance, simple machines; Newton's II. ACT law, speed, acceleration, movement, friction movement; Work and energy, conservation of energies; Momentum and Impuls, collision; Substance, common and non-common properties of substances, density, specific gravity; Pressure in solids, liquids and gases, open air pressure, lifting force; Heat and temperature, measurement shapes, expansion, heating

Course Code	Course Name	T	U	L	Credit	Ects
UTP107	**Basic Electrical Electronics**	4	0	0	4	4

Course Content: Basic concepts commonly used in electrical and electronic systems, passive circuit Elements (resistor, coil, capacitor). DC and AC circuits, engines and generators. Semiconductors, active circuit elements diode and transistor structures, work, types and circuit connection features and integrated circuits.

Course Code	Course Name	T	U	L	Credit	Ects
UTP109	**Technical drawing**	2	1	0	2.5	3

Course Content: Basic drawing rules, lines, Letterbook, drawing rules, drawings reading, three appearances Extraction, persperktif drawing, tolerances, drawing of Makin elements, assembly picture reading

Course Code	Course Name	T	U	L	Credit	Ects
UTP111 Basic aviation information and technology		2	0	0	2	2

Course Content: Historical development of aviation, information on basic aerospace, basic principles of flying, Air vehicle description and classification, aircraft types, sub-systems, aviation terminology.

Course Code	Course Name	T	U	L	Credit	Ects
MEMBERG103 Transition to university life		1	1	0	1.5	2

Course Content: The consciousness of living as a responsible individual in the university and the university's social, cultural, Participation in scientific activities. To improve the awareness and feeling of "becoming an Ege university" by ensuring that students participate regularly in a variety of scientific, cultural, artistic and sporting activities that facilitate the adaptation to university life by detecting the concept of university . Students are guided to socialize and develop communication skills with participation in activities organized under the umbrella of Ege University.

EGE UNIVERSITY AVIATION VOCATIONAL SCHOOL

Aircraft Technology Associate Degree Curriculum 2. H. Year

Course Code	Course Name	T	U	L	Credit	Ects
ATA102 Atatürk's principles and History of Revolution		2	0		2	2

Course Content: Atatürk Revolution, Atatürk period Turkish foreign policy, Atatürk principles, 1938 after Political developments in Turkey and the world

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-2.1	**S. G. AIRCRAFT-2.1 (Lesson 1)**	-	-	-	-	4
YDI102	**Foreign Language-2**	4	0	0	4	4

Course Content: Improve your English listening, speaking and writing skills

UTP114	**Advanced English-2**	4	0	0	4	4

Course Content: Develop English listening, speaking and writing skills.

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-2.2	S. G. AIRCRAFT-2.2 (Lesson 1)	-	-	-	-	2
UTP116	Human Factors in aviation	2	0	0	2	2

Course Content: Human factor, human performance, physical environment, tasks, social, psychology, communication and The danger in the workplace is the course of first aid issues business

UTP118	Human Factors in Aviation	2	0	0	2	2

Course Content: The course aims to help the technicians to know themselves and reduce the human errors. In maintenance organizations with the view of "human" for who plays role in aircraft maintenance.

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-2.3	S. G. AIRCRAFT-2.3 (Lesson 1)	-	-	-	-	2
UTP120	Model Airplane	1	1	0	1.5	2

Course Content: By supplying a variety of materials, the model with the group work is made

UTP122	Sign Language	1	1	0	1.5	2

Course Content Learn sign language and strengthen communication

UTP124	Entrepreneurship	1	1	0	1.5	2

Course Content: This course aims to provide information about entrepreneurship concepts and process, aims to improve the feasibility of a new business and to develop the ability to prepare entrepreneurship plans such as marketing and production.

UTP126	Industry-based Teaching (internship)	0	0	0	0	2

Course content: (internship) Basic workkshop behaviors and safety training, basic maintenance applications, basic manufacturing applications

Course Code	Course Name	T	U	L	Credit	Ects
TUR102	TURKISH LANGUAGE 2	2	0	0	2	2

Course Content: The concept of narration. Ways to develop thought. Narrative forms. Reading, listening, General features of speech and writing. Verbal expression and verbal expression types. Types of written narration and written expression.

Course Code	Course Name	T	U	L	Credit	Ects
UTP102	ELECTRONIC TOOL SYSTEMS	4	0	0	4	4

Course Content: Number systems; Between the desimal, binary, octal and hexadecimal and this number systems Conversion. Data translation; Analog data, digital data and data converters. Operation of data buses in air vehicle systems, ARıNC and other specifications logic circuits. Electronic instrument systems, general arrangements and placement in the cockpit. Teme l Computer Terminology and computer technology implemented in air tools. Disclosure of Fiber Optic technology. General electronic imaging systems used in air vehicles; Cathode ray tubes, light-giving diode and liquid crystal display elements. Precision units for electrostatics. Electromagnetic environment; EMC, EM, HıRF, lightning-lightning protection digital air vehicle systems; ACARS-ARıNC, ECAM, EFıS, EıCAS, FBW, FMS, GPS, IRS, TCAS

Course Code	Course Name	T	U	L	Credit	Ects
UTP104	AIR TOOL MATERIAL INFORMATION	4	0	0	4	4

Course Content: Properties of materials, classification and varieties of materials, atomic structures and Material defects, iron based air tool materials, non-ferrous air tools, composite materials, fabric coating, corrosion, connectors used in Airtools, pipes and fittings, springs, bearings, transmissions, control Cables, electrical cables and connectors

Course Code	Course Name	T	U	L	Credit	Ects
UTP106	ITKI SYSTEMS	2	0	0	2	2

Course Content: PISTON motors, piston motors subsystems and aviation use subjects

Course Code	Course Name	T	U	L	Credit	Ects
UTP108	BASIC AERODYNAMICS	2	0	0	2	2

Course Content: Aerodynamics, flight theory and flight controls are the course of issues

Course Code	Course Name	T	U	L	Credit	Ects
UTP110	MACHINE ELEMENTS	2	0	0	2	2

Course Content: The systems that make up the machine and the components that provide the installation of these systems. Information about the identification, strength, construction techniques and various fasteners.

Course Code	Course Name	T	U	L	Credit	Ects
UTP112	MACHINE PICTURE 1 1	1	0	0	1,5	2

Course Content: Ability to make and read drawings of basic machine images, and best-of-View, cross-section and intermediate cross-section, custom and auxiliary appearance drawing, basic machining, pass tolerances and shape-position, ability to use dimension tolerances, draw perspective picture, read and define assembly image

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Aircraft Technology Associate Degree syllabus 3. H. Year

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-3.1	S. G. AIRCRAFT-3.1 (Lesson 1)	-	-	-	-	4
UTP213	Aviation English 1	4	0	0	4	4

Course Content: Technical aviation terms, basic phrases and structures in English, the physical characteristics, aircraft basic movements, technical defects, errors and faults, connection, assembly and Technical terms and units used in maintenance operations.

UTP215	Aviation English 1	4	0	0	4	4

Course Content: Technical aviation terms, basic phrases and structures in English, the physical characteristics, aircraft basic movements, technical defects, errors and faults, connection, assembly and Technical terms and units used in maintenance operations

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-3.2	S. G. AIRPLANE 3.2 (LESSON 1)	-	-	-	-	8

Course Code	Course Name	T	U	L	Credit	Ects
UTP217	**Professional Applications-1**	1	7	0	4.5	8

Course Content Basic workshop behaviors and safety training, basic applications

Course Code	Course Name	T	U	L	Credit	Ects
UTP219	Occupational Practıces-1	1	7	0	4.5	8

Course Content: Basic workshop behaviors and safety training, basic applications

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-3.3	**S. G. AIRCRAFT-3.3 (Lesson 1)**	-	-	-	-	6
UTP221	**Computer Aided design**	2	0	0	2	2

Course Content: Auto Cad program to learn 2D and 3D drawing commands. Make part drawing

| UTP223 | **Non-Destructive Testing-1** | 2 | 0 | 0 | 2 | 2 |

Course Content: This course contains subjects related to undamaged control methods.

| UTP225 | **Composite Technology-1** | 2 | 0 | 0 | 2 | 2 |

Course Content: The recognition classification and composite structures used in aviation. Production methods of composites. Methods of testing and examination of composites.

| UTP227 | **Job Training (OJT)-1** | 0 | 0 | 0 | 0 | 6 |

Course Content: Basic Workshop behaviors and safety training, basic maintenance applications, basic manufacturing applications

Course Code	Course Name	T	U	L	Credit	Ects
UTP201	**Aircraft structures**	2	0	0	2	2

Course Content: Plane Structural elements and working principles of the construction,

Course Code	Course Name	T	U	L	Credit	Ects
UTP203	**Gas Turbine Motors**	2	0	0	2	2

Course Content: The operating principles of the systems and subsystems used in air vehicles
The course of the topics related to

Course Code	Course Name	T	U	L	Credit	Ects
UTP205	**Machining techniques**	2	0	0	2	2

Course Content: Recognition of machining, hand tools, drills, turning, milling devices and machining with these devices Ability

Course Code	Course Name	T	U	L	Credit	Ects
UTP207	**Hydraulic Pneumatic**	2	0	0	2	2

Course Content: Hydraulic and pneumatic circuit elements, systems and fault detection issues

Course Code	Course Name	T	U	L	Credit	Ects

UTP209	**Aviation laws and regulations**	**2**	**0**	**0**	**2**	**2**

Course Content: SGHM duties, ICS definition, EASA and FAA are defined, the transition from JAA to EASA, SGHM regulations, JAA and EASA rules, relations between regulations and rules, air

Certification of the agent, national and international and requirements Course Code

	Course Name	T	U	L	Credit	Ects
UTP211	**Aircraft Electrical and electronic systems**	**2**	**0**	**0**	**2**	**2**

Course Content: Aircrafts automatic flight and avionics systems, aircraft DC and AC power Systems, Electrical wiring systems, aircraft communication and navigation system

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Aircraft Technology Associate Degree Curriculum 4. H. Year

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-4.1	**S. G. AIRCRAFT-4.1 (Lesson 1)**	-	-	-	-	**4**
UTP214	**Aviation English-2**	**4**	**0**	**0**	**4**	**4**

Course Content: The basic mechanics and electronics of the ATA (Air Transport Association) Chapter The structure of the units, the working principle and the maintenance of English terms

UTP216	**Aviation English-2**	**4**	**0**	**0**	**4**	**4**

Course Content: The basic mechanics and electronics of the ATA (Air Transport Association) Chapter The structure of the units, the working principle and the maintenance of English terms

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-4.2	**S. G. AIRCRAFT-4.2 (Lesson 1)**	-	-	-	-	**6**
UTP218	**Professional Applications-2**	**1**	**5**	**0**	**3.5**	**6**

Course Content: Basic workshop behaviors and safety training, basic app.

UTP220	**Occupational Practices-2**	**1**	**5**	**0**	**3.5**	**6**

Course Content: Basic Workshop behaviors and safety training, basic app.

Course Code	Course Name	T	U	L	Credit	Ects
SGUÇK-4.3	**S. AIRPLANE-4.3 (Lesson 1)**	-	-	-	-	**6**
UTP222	**Computer Aided Manufacturing**	**2**	**0**	**0**	**2**	**2**

Course Content: Design in Cad-Cam systems and manufacturing in various CNC lathe-Milling Machines

UTP224	**Non-Destructive Testing-2**	**2**	**0**	**0**	**2**	**2**

Course Content: This course contains subjects related to undamaged control methods.

UTP226	**Composite Technology-2**	**2**	**0**	**0**	**2**	**2**

Course Content: Recognition, classification, composite materials used in aerospace buildings. Production methods of composites. Composite parts Manufacturing. Testing and inspection of composites Methods. Performing destructive and non-destructive examination of the manufactured part

UTP228	**Job Training (OJT)-2**	**0**	**0**	**0**	**0**	**6**

Course Content: Basic Workshop behaviors and safety training, basic maintenance applications
Basic Manufacturing Applications

Course Code	Course Name	T	U	L	Credit	Ects
UTP202	Aircraft Systems	2	0	0	2	2

Course Content The systems of the planes, system elements and operating principles of the aircraft

Course Code	Course Name	T	U	L	Credit	Ects
UTP204	Propeller	2	0	0	2	2

Course Content: Propeller structure, systems, maintenance and the use of air tools in the issue of issues

Course Code	Course Name	T	U	L	Credit	Ects
UTP206	Sawless Manufacturing Techniques	2	0	0	2	2

Course Content: Chipless manufacturing, welded bonding and new production technologies

Course Code	Course Name	T	U	L	Credit	Ects
UTP208	Community Service Applications	1	0	0	1	2

Course Content: Basic concepts, community and environmental problems we live in, benefit to society and the environment To learn about various foundations, social responsibility concept and social responsibility Campaigns overview, Determination of project subjects (children, elderly, women, environmental problems, education and learning problems, patients and health problems, etc.)

Course Code	Course Name	T	U	L	Credit	Ects
UTP210	Helicopter structures and systems	2	0	0	2	2

Course Content: Helicopter construction, structural elements, systems and systems working principles Subjects.

Course Code	Course Name	T	U	L	Credit	Ects
UTP212	Quality Management Systems	2	0	0	2	2

Course Content: General quality definitions standardization, quality standards applied in aviation

Course Code	Course Name	T	U	L	Credit	Ects
UTP230	Industry-based Teaching (internship) II0	0	0	0	2

Course Content: Basic Workshop behaviors and safety training, basic maintenance applications, basic manufacturing applications