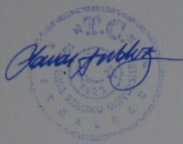


7 - CERTIFICATION OF THE SUPPLEMENT

7.1 Date : 28.04.2017
 7.2 Name and Signature : **Savaş YILDIZ**
 7.3 Capacity : **Director of Student Affairs**
 7.4 Official stamp or seal :



8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

Structure and Degree System

The basic structure of the Turkish National Education System consists of stages of noncompulsory pre-school education; compulsory primary (elementary and middle school) and secondary (high school) education; and higher education. Primary education begins at the age of 5.5 (66 months), lasts eight years and comprises elementary and middle school education, four years each. Secondary education is also four years and divided into two categories as "General High School Education" and "Vocational and Technical High School Education". The entry into these categories is through composite scores obtained from a centralized exam for secondary schools.

Higher education system in Turkey is managed by the Council of Higher Education (CoHE, Yükseköğretim Kurulu-YÖK) which is an autonomous public body responsible for the planning, coordination, governance and supervision of higher education within the provisions set forth in the Constitution of the Turkish Republic and the Higher Education Law. Both state and non-profit foundation universities are founded by law and subjected to the Higher Education Law and to the regulations enacted in accordance with it.

Higher education in Turkey comprises all post secondary higher education programmes, consisting of short, first, second, and third cycle degrees in terms of the terminology of the Bologna Process. The structure of Turkish higher education degrees is based on a two-tier system, except for dentistry, pharmacy, medicine and veterinary medicine programmes which have a one-tier system. The duration of these one-tier programmes is five years (300 ECTS) except for medicine which lasts six years (360 ECTS). The qualifications in these one-tier programmes are equivalent to the first cycle (bachelor's) plus second cycle (master's) degree. Undergraduate level of study consists of short cycle (associate's)-(onsans derecesi) and first cycle (bachelor's)-(lisans derecesi) degrees which are awarded after successful completion of full-time two-year (120 ECTS) and four-year (240 ECTS) study programmes, respectively.

Graduate level of study consists of second cycle (master's)-(yüksek lisans derecesi) and third cycle (doctorate)-(doktora derecesi) degree programmes. Second cycle is divided into two sub-types named as master without thesis and master with thesis. Master programmes without thesis require 60 to 90 ECTS credits and consist of courses and a semester project. 60 ECTS non-thesis master programmes are exceptional, and exist in a few disciplines. The master programmes with a thesis require 90 to 120 ECTS credits, which consists of courses, a seminar, and a thesis. Third cycle (doctorate) degree programmes are completed having earned a minimum of 180 ECTS credits, which consists of completion of courses, passing a proficiency examination and a doctoral thesis. Specialization in medicine, accepted as equivalent to third cycle programmes are carried out within the faculties of medicine, university hospitals and the training hospitals operated by the Ministry of Health.

Universities consist of graduate schools (Institutes) offering second cycle (master's) and third cycle (doctorate) degree programmes, faculties offering first cycle (bachelor's) degree programmes, four-year higher schools offering first cycle (bachelor's) degree programmes with a vocational emphasis and two-year vocational schools offering short cycle (associate's) degree programmes of a strictly vocational nature.

Since 2003, first cycle degree holders may apply directly to third cycle (doctorate) programmes if their performance at the first cycle degree level is exceptionally high and their national central Graduate Education Entrance Examination (ALES) score is also high and their application is approved. For these students, theoretical part of the programmes requires additional courses of 60 ECTS credits.

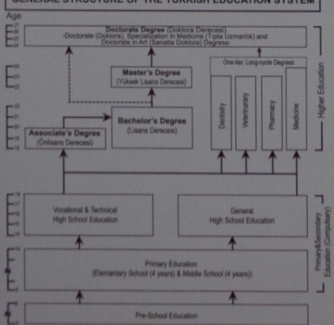
Admission of national students to short and first cycle degree programmes is centralized and based on a nationwide one/two-stage examination(s) conducted by an autonomous public body (Assessment, Selection and Placement Centre-ÖSYM). Candidates gain access to institutions of higher education based on their composite scores consisting of the scores on the selection examination and their high school grade point averages. Admission to graduate programmes is directly conducted by the higher education institutions (HEIs) within the frameworks of the publicly available national and institutional regulations. Admission of foreign students to programmes at all levels of higher education can be done by direct applications of candidates to HEIs based on publicly available national and institutional regulations.

The Turkish National Qualifications Framework for Higher Education (TYYC): The National Qualifications Framework for Higher Education in Turkey (TYYC) developed with reference to the QF for European Higher Education Area and the EDF for lifelong learning was adopted by the CoHE in 2010. The framework has been developed as a part of a single national qualifications framework, which would eventually consist of 8 level national framework covering all levels of education on completion of the ongoing work at the national level, in which the higher education levels lie on levels between 5 to 8. The levels of the TYYC with reference to the European overarching qualifications frameworks as well as that to ECTS credits and student workload are shown below.

TYYC LEVELS, QUALIFICATIONS TYPES AND ECTS CREDITS

Higher Education Level/Cycle	AWARDED DEGREES	LENGTH (Year)	TOTAL ECTS CREDITS (Year x 60 ECTS)	TOTAL STUDENT WORKLOAD (h) (1 ECTS=25-30h)
1	ÖF- EHEA EQF- LLL TYYC- LEVELS			
5	Doctorate Specialization in Medicine Doctorate in Art	3 (min.)	180 (min.)	4.500 - 5.000
6	Master's Degree	1-2	60 - 120	1.500 - 3.000
7	Bachelor's Degree	4	240	6.000 - 7.200
8	Associate's Degree	2	120	3.000 - 3.600

GENERAL STRUCTURE OF THE TURKISH EDUCATION SYSTEM



Diploma No : 12.01.21.618
 Diploma Date : 13.08.2016
 University of Turkish Aeronautical Association
 Türkkuşu Campus, 06790 Etimesgut/ANKARA/TURKEY
 Phone : +90 444 8458 Fax : +90 312 342 8460
 www.thk.edu.tr

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value-judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1 - INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1. Family name(s) : **KUNNATHUR**
- 1.2. Given name(s) : **Mohamad Usama**
- 1.3. Date of birth : **05.11.1993**
- 1.4. Student identification number : **120121618**

2 - INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1. Name of the qualification and title conferred (in original language):
Aeronautical Engineering (English), Bachelor of Science / Uçak Mühendisliği (İngilizce), Lisans Derecesi
- 2.2. Main field(s) of study for the qualification:
Aeronautical Engineering (English) / Uçak Mühendisliği (İngilizce)
- 2.3. Name and status of awarding institution:
University of Turkish Aeronautical Association: Foundation-supported, Public Legal Entity, State-recognized Türk Hava Kurumu Üniversitesi: Kuruluslu Kurum, Devlet tarafından tanınan Vakıf Üniversitesi
- 2.4. Name and type of institution administering studies:
Same as 2.3
- 2.5. Language(s) of instruction/examination:
İngilizce

3 - INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1. Level of qualification:
First Cycle (Bachelor's Degree)
- 3.2. Official length of programme:
Normally 4 years, 2 semesters per year, 17 weeks per semester, 240 ECTS
- 3.3. Access requirement(s):
**High School Diploma,
 Placement through a centralized national university placement examination.**

4-INFORMATION ON THE CONTENTS AND RESULTS GAINED

- 4.1. Mode of Study:
Full-time
- 4.2. Programme requirements:
 4.2.1. Requirements:
Students must have a Cumulative Grade Points Average (CGPA) of not less than 2.00/4.0 and have completed all the courses with at least a letter grade of DD/S in the program in order to graduate.
 4.2.2. Objectives:
**Ability to use mathematics, science and basic engineering knowledge to the mechanical engineering applications, knowledge of mathematics, science, and engineering
 Ability to design and execute experiment and to analyze and interpret the results.
 Ability to design a complex system, component and process taking into account of realistic constraints and conditions such as economy, environmental issues, sustainability, and manufacturability, as meet specific requirements
 Ability to identify and solve the problems of aeronautical engineering.
 Ability to be able to work effectively as an individual and in multi-disciplinary teams.
 Ability to recognize awareness of professional and ethical responsibility.
 Ability to communicate oral and written in both Turkish and English languages.
 Ability to criticize the effects of national and global dimensions feature using aeronautical engineering knowledge.
 Ability to recognize the need for life-long learning, and an ability to apply it.
 Ability to use modern methods of engineering such as computer software for engineering design and analysis and modern methods to obtain information.**

4.3. Programme details and the individual grades / marks / credits obtained:

Course Code	Course Name	Course Category	Grade	UTAA Credit	ECTS Credits
Semester I					
COM 123	Computer Programming (FORTRAN)	Required	BB	4	8
ENG 101	Academic Writing Skills	Required	CB	3	6
MAT 121	Engineering Mathematics I	Required	AA	4	8
TUR 103	Turkish Culture and Turkish Language I	Required	AA	2	2
Semester II					
AEE 122	Introduction to Aircraft Performance	Required	BA	3	7
ENG 102	Academic Presentation Skills	Required	AA	3	6
MAT 122	Engineering Mathematics II	Required	BB	4	8
PHY 102	Physics II	Required	AA	4	6
TUR 104	Turkish Culture and Turkish Language II	Required	AA	2	2
Semester III					
AEE 100	Summer Practice I	Required	S	0	1
Semester IV					
AEE 201	Mechanics I : Statics	Required	CB	3	4
AEE 204	Fluid Mechanics	Required	CB	3	4
IND 221	Engineering Economics	Required	BB	3	4
MAT 221	Linear Algebra	Required	BB	3	6
MEC 203	Computer Aided Engineering Graphics	Required	CB	5	6
TUR 201	Turkish Culture and Turkish Language III	Required	BB	2	2
Semester V					
AEE 200	Summer Practice II	Required	S	0	6
AEE 202	Mechanics II : Dynamics	Required	CC	3	4
AEE 206	Strength of Materials	Required	CC	4	4
AEE 208	Thermodynamics	Required	AA	3	4
EEE 222	Fundamentals of Electrical And Electronic Circuits	Required	BA	3	5
MAT 222	Differential Equations	Required	AA	3	5
TUR 202	Turkish Culture and Turkish Language IV	Required	AA	2	2
Semester VI					
AEE 341	Aerodynamics I	Required	BA	3	5
AEE 361	Applied Elasticity	Required	CC	3	5
AST 261	Aerospace Materials	Required	BA	3	5
AST 303	Control Systems	Required	BB	3	4
MAT 301	Probability and Statistics	Required	AA	3	6
MEC 321	Heat Transfer	Required	CC	3	5
SPN 101	Spanish I	Required	AA	3	3
Semester VII					
AEE 300	Summer Practice III	Required	S	0	7
AEE 331	Propulsion Systems	Required	CB	3	5
AEE 342	Aerodynamics II	Required	BA	3	5
AST 443	Viscous Flow	Elective	CB	3	6
SPN 102	Spanish II	Elective	BA	3	3
Semester VIII					
AEE 307	Computational Methods	Required	DD	3	5
AEE 446	Computational Fluid Dynamics	Elective	BA	3	6
AEE 451	Aircraft Design	Required	CB	5	9
AEE 463	Fundamentals of Vibrations	Elective	CC	3	6
AST 483	Aerospace Control Systems	Elective	CB	4	6
PHY 101	Physics I	Required	BA	4	6
SOC 102	Business Communication	Elective	AA	3	3
Semester IX					
AEE 362	Aerospace Structures	Required	CC	3	5
AEE 372	Flight Mechanics	Required	CB	3	5
AEE 441	Aerodynamical Design of Aircrafts	Elective	BB	6	12
AEE 464	Finite Element Theory	Elective	AA	3	6
AEE 495	Airworthiness Certification	Elective	BA	3	6
AST 451	Guided Missile Design	Elective	AA	3	6

Total Credits : 144 Total ECTS Credits : 250

Note: The courses marked as (*) are received under Erasmus Program Context

4.4. Grading scheme and grades:

Course passing grade is determined after the assessment of quizzes and midterm exams, homework, applied studies and general exam. The weight of exams and applied studies within the grade point average is determined and announced by the course instructor at the beginning of the term.

The meanings of the letter grades, coefficients and percentage equivalents are given below. A course instructor may take this table as reference or make a relative assessment.

Local Course Grades	AA	BA	BB	CB	CC	DC	DD	FF
Grade Points	4.00	3.50	3.00	2.50	2.00	1.50	1.00	0.00
Percentage	90-100	85-89	80-84	70-79	60-69	50-59	45-49	0-44
ECTS Grades	A	B	B	C	C	D	E	F

In order to pass a course, students are required to take one of these grades: AA, BA, BB, CB, CC, DC, DD and S. Students fail a course with a grade of FF, NA and U.

Other grades are NA (Non-Attendance), P (Progress), S (Satisfactory) and U (Unsatisfactory). Descriptions of these grades are as follows.

(NA) Given to students who fail to take the final exam upon failure to attend classes or complete practical or applied components of a course.

(P) Given to students who are making progress in courses which carry over for more than one semester.

(S) Grade is given to students who are successful in non-credit courses. The grade (S) is also given to students who have transferred from other Universities or re-registered to the University through the entrance examination conducted by Student Selection and Placement Center, when these courses are approved as equivalents by the Faculty or School of Higher Education or Vocational Training School Executive Council on the recommendation of the Head of Department. The (S) grade cannot be given to a student who has transferred and who is required to repeat a course under the regulations. The (S) grade is not included in computing the grade averages.

(U) Grade is given to students who are not successful in non-credit courses.

(GPA) Grade Point Average and (CGPA) Cumulative Grade Point Average : A student's academic performance is determined at the end of each semester by computing an average of the grades that he/she has received during that semester (GPA) and during all the semesters (CGPA).

4.5. Overall classification of the qualification:

Cumulative Grade Point Average (CGPA): 3.08 out of 4.00
Final Grade of Degree: Onur (Honour)

5 - INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study:

May apply to second cycle programmes.

5.2. Professional status (if applicable):

This degree enables the holder to exercise the profession

6 - ADDITIONAL INFORMATION

6.1. Additional information:

University of Turkish Aeronautical Association, Faculty of Aeronautics and Astronautics, Aeronautical Engineering (English)
<http://aero.thk.edu.tr/>

6.2. Further information sources:

University of Turkish Aeronautical Association(UTAA) web site:	http://www.thk.edu.tr/
Online catalog for degree programmes at UTAA:	http://sis.thk.edu.tr/bois/bologna/
Office of International Affairs:	http://intoffice.thk.edu.tr/
The Council of Higher Education web site:	www.yok.gov.tr
The Turkish ENIC-NARIC web site:	www.enic-naric.net/Index.aspx?o=Turkey