

## 7. CERTIFICATION OF THE SUPPLEMENT

- 7.1. Date :  
 7.2. Name and Signature : Hasan BOSTANCI  
 7.3. Capacity : Deputy Head of the Department of Student Affairs  
 7.4. Official stamp or seal :



## ERZURUM TECHNICAL UNIVERSITY DIPLOMA SUPPLEMENT

Erzurum Teknik Üniversitesi 25240 Erzurum,  
Turkey <http://www.izurum.edu.tr>

Phone(s) +90 0442 666 25 29 Diploma No :  
 +90 444 5 388 Date Issued :  
 Fax(es)

## 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 non-compulsory 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)-(önlisans 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.

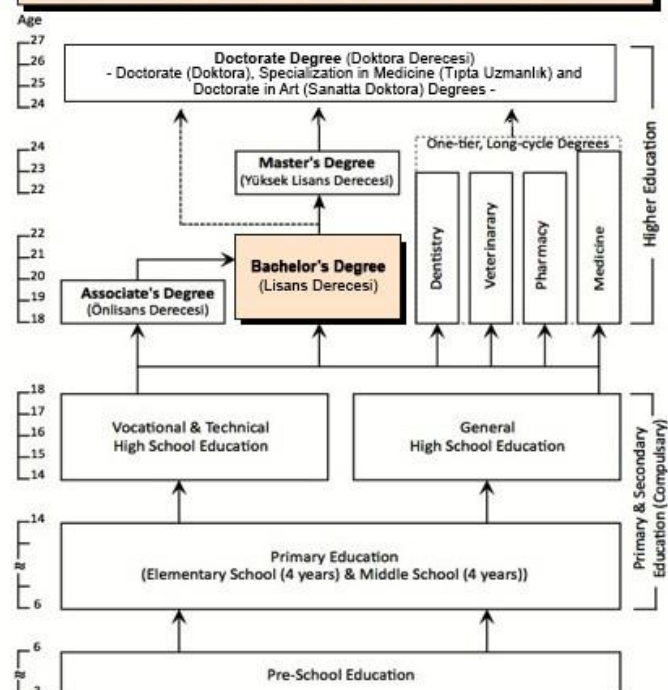
Admission of national students to short and first cycle degree programmes is centralized and based on a nationwide one/two-stage examination(s) conducted by an autonomous public body (Assessment, Selection and Placement Centre-ÖSYM). Candidates gain access to institutions of higher education based on 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 (TYYÇ):** The National Qualifications Framework for Higher Education in Turkey (TYYÇ) developed with reference to the QF for European Higher Education Area and the EQF 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 educations 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 TYYÇ with reference to the European overarching qualifications frameworks as well as that to ECTS credits and student workload are shown below.

**TYYÇ LEVELS, QUALIFICATIONS TYPES AND ECTS CREDITS**

Higher Education Levels/Cycles			AWARDS/ DEGREES	LENGTH (Year)	TOTAL ECTS CREDITS (Year x 60 ECTS)	TOTAL STUDENT WORKLOAD (h) (1 ECTS= 25-30h)
QF-EHEA	EQF-LLL	TYYÇ LEVELS				
3	8	8	Doctorate Specialization in Medicine Doctorate in Art	3 (min.)	180 (min.)	4.500 – 5.400
2	7	7	Master's Degree	1-2	60-120	1.500 – 3.600
1	6	6	Bachelor's Degree	4	240	6.000 – 7.200
Short Cycle	5	5	Associate's Degree	2	120	3.000 – 3.600

**GENERAL STRUCTURE OF THE TURKISH EDUCATION SYSTEM**



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) :  
 1.2. Given name(s) :  
 1.3. Date of birth (day/month/year) :  
 1.4. Student identification number :

### 2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1. Name of the qualification :  
 Makine Mühendisliği, Lisans  
 2.2. Main field(s) of study for the qualification :  
 Mechanical Engineering  
 2.3. Name and status of awarding institution :  
 Erzurum Teknik Üniversitesi, Devlet Üniversitesi  
 Erzurum Technical University, State University  
 2.4. Name and status of institution administering studies :  
 Same as 2.3  
 2.5. Language(s) of instruction/examination :  
 Turkish

### 3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1. Level of qualification:  
 First Cycle (Bachelor's Degree)  
 3.2. Official Length of Programme:  
 4 Years, 2 semesters per year, 14 weeks per semester, 240 ECTS credits  
 3.3. Access requirements(s):  
 High School Diploma,  
 Placement through a nation-wide Student Selection and Placement Examinations (TYT and YKS)

### 4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

- 4.1. Mode of study:  
 Full Time  
 4.2. Programme requirements:  
 This degree is awarded to students who have successfully completed all courses in the curriculum and have a minimum CGPA of 2.00/4.00

#### Objectives

The Bachelor of Science in Mechanical Engineering programme aims to equip students with sufficient background in theoretical and practical aspects of the Mechanical Engineering discipline. They are educated to have responsibility in design, production, control, research and development activities in a variety of industrial organizations; be sufficient in problem determination and systematic approach in their solutions; be innovative; self-confident and have the capability to perform research and development that will contribute to national technology. The graduates of the department are able to carry out professional engineering in a broad range of current technological sites of the country.

#### 4.3 Components, courses, modules or units studied and individual grades obtained

Code	Course Title	Course Category	ECTS Credits	Grade
<b>Semester I</b>				
FİZ-101	Physics - I	Required	6	DC
KİM-101	General Chemistry	Required	5	BB
MAK-101	Introduction to Mechanical Engineering	Required	2	AA
MAT-101	Mathematics - I	Required	6	BA
MMF-101	Using Information Technologies and Applications	Required	2	AA
MMF-103	Engineering Drawing	Required	4	AA
UOZ-YD1	Foreign Language - I	Required	2	G
<b>Semester II</b>				
FİZ-102	Physics - II	Required	6	BA
MAK-102	Statics	Required	4	BA
MAK-104	Computer Aided Technical Drawing	Required	4	AA
MAK-106	Measuring Technique	Required	3	BA
MAK-110	Statistical Methods in Engineering	Required	4	CC
MAT-102	Mathematics - II	Required	6	BA
MMF-102	Computer Programming	Required	4	AA
UOZ-YD2	Foreign Language - II	Required	2	G
<b>Semester III</b>				
MAK-203	Strength of Materials - I	Required	5	AA
MAK-205	Dynamics	Required	4	AA
MAK-207	Thermodynamics - I	Required	5	AA
MAT-201	Differential Equations	Required	5	AA
MMF-201	Materials Science	Required	5	CC
MMF-203	Fundamentals of Electrical and Electronics Engineering	Required	4	BA
UOZ-TD1	Turkish Language - I	Required	2	G
<b>Semester IV</b>				
MAK-204	Engineering Materials	Required	4	AA
MAK-206	Fluid Mechanics - I	Required	5	CB
MAK-208	Strength of Materials - II	Required	4	AA
MAK-210	Manufacturing Processes - I	Required	4	BA
MAK-212	Thermodynamics - II	Required	5	CC
MAK-214	Engineering Mathematics	Required	3	BA
MMF-202	Numerical Methods	Required	3	AA
UOZ-TD2	Turkish Language - II	Required	2	G
<b>Semester V</b>				
MAK-300	Summer Practice - I	Required	2	G
MAK-301	Machine Elements - I	Required	5	BB
MAK-303	Heat Transfer -I	Required	5	BA
MAK-305	Mechanical Vibration	Required	4	BB
MAK-307	Manufacturing Processes - II	Required	4	AA
MAK-309	Fluid Mechanics - II	Required	4	BB
UOZ-TA1	Atatürk's Principles and History of Turkish Revolution - I	Required	2	G
MAK-311	Experimental Mechanics in Engineering	Elective	4	AA
<b>Semester VI</b>				
MAK-302	Machine Elements - II	Required	5	AA
MAK-304	Heat Transfer - II	Required	5	BA
MAK-306	Dynamics of Machinery	Required	4	BA
MAK-308	Automotive Technology	Required	3	AA
MAK-310	Machining and Machine Tools	Required	4	BA
UOZ-TA2	Atatürk's Principles and History of Turkish Revolution - II	Required	2	G
MAK-312	Advanced Strength Of Materials	Elective	4	AA
STO-402	Olympic Sports	Elective	3	AA
<b>Semester VII</b>				
MAK-400	Summer Practice - II	Required	2	G
MAK-401	Machine Design - I	Required	5	BA
MAK-403	Machine Laboratory - I	Required	4	BA
MAK-405	Computer-Aided Engineering	Required	5	BA
MAK-407	Computer Aided Manufacturing	Elective	4	AA
STO-401	Pioneers Of Science	Elective	3	AA
STS-401	Nanotechnology	Elective	4	AA
<b>Semester VIII</b>				
MAK-402	Machine Design - II	Required	5	AA
MAK-404	Machine Laboratory - I	Required	4	CB
MAK-406	Energy Conversion Systems	Required	4	CC
MAK-408	Engineering Projec	Required	6	AA
MMF-401	Occupational Health and Safety	Required	3	AA
MAK-410	Computer applications for heat and fluid flow	Elective	4	BA
STO-402	Classical Music History	Elective	3	AA
STS-402	Corrosion Protection Techniques	Elective	4	AA
			Total ECTS Credits :	240
			Cumulative GPA :	3,47

#### 4.4 Grading scheme, grade translation and grade distribution guidance:

For each course taken, student is given one of the following grades by the course teacher.

Grades in letters	Grades in numbers
AA	4.00
BA	3.50
BB	3.00
CB	2.50
CC	2.00
DC	1.50
DD	1.00
M	-
G	-

The grades (AA), (BA), (BB), (CB), (CC), (DC), and (DD) are given to students who are successful in credit courses. The grade (M) is given to the students who are exempt from that course. The grade (G) indicates that student has successfully completed the course. The students with a GPA between 3.00 and 3.49 are considered "honors students" and those with a GPA between 3.50 and 4.00 are considered "high honors students".

#### 4.5 Overall classification of the qualification :

Genel Not Ortalaması :	3.47
Cumulative Grade Point Average	3.47
Final Grade of the degree	Onur Derecesi (Honors Degree)

#### 5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

##### 5.1. Access to further study:

May apply to second cycle programmes

##### 5.2. Professional status conferred :

This degree enables the holder to exercise the profession.

#### 6. ADDITIONAL INFORMATION

##### 6.1. Additional information:

N/A

##### 6.2. Further information sources:

University website: <http://www.erasmus.edu.tr/>

Online Course Catalogue: <http://servis.erasmus.edu.tr/bologna/en>

The Council of Higher Education of Turkey website: <http://www.yok.gov.tr/en>

The Turkish ENIC-NARIC website: <http://www.enic-naric.net/turkey.aspx>