KARABÜK ÜNİVERSİTESİ
DIPLOMA SUPPLEMENT

Diploma No: 2014/1365
Diploma Date: 10/07/2014

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This Diploma Supplement model was 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 or code (if available):

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1. Name of the qualification and (if applicable) title conferred (in original language):

Makine Mühendisliği, Lisans

2.2. Main field(s) of study for the qualification:

Mechanical Engineering

2.3. Name and status of awarding institution (in original language):

Karabük Üniversitesi, Devlet Üniversitesi
Karabuk University, a State University

2.4. Name and status of institution (if different from 2.3) administering studies (in original language):

Same as 2.3

2.5. Language(s) of instruction/examination:

Turkish (30 % English)

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 (excluding one year of English preparatory school), 2 semesters per year, 17 weeks per semester. 4 Years = 240 Credits (ECTS)

3.3. Access requirement(s):

High school diploma,
placement through a nation-wide Student Selection Examination (ÖSS)

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1. Mode of study:

Full-time

4.2. Programme requirements:

In order to qualify for the award of Bachelor's Degree, the student must complete
-all courses in the curriculum,
-an 8-week industrial training period,
-a minimum CGPA of 2.50/4.00 (60/100) and 240 ECTS and no failing grades.

The Bachelor's Degree Program provides fundamental knowledge about mechanics of materials, thermodynamics, fluid mechanics, heat transfer, automation-control and manufacturing. It is essential that students graduating from the Program have sufficient knowledge in those fields. The Program enables students to have analytical and logical thinking skills.

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)-(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.

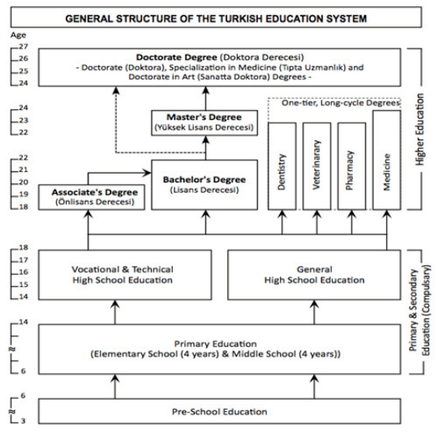
The Turkish National Qualifications Framework for Higher Education (TYYÇ):

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 consists 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



4.3. Programme details (e.g., modules or units studied), and the individual grades/marks/credits obtained (if this information is available on an official transcript this should be used here):

COURSE ID	COURSE NAME	CATEGORY (Comp./Elect.)	NATION. CREDIT	GRADE	ECTS CREDIT
Semester 1					
AIT181	Atatürk's Principles and History of Revolutions I	Compulsory	2	A1	2
BLM181	Introduction to Computer Sciences	Compulsory	3	B1	4
FIZ181	Physics I	Compulsory	4	B2	4
GSR181	Fine Arts (Photo) I	Elective	2	B1	2
KIM181	Chemistry	Compulsory	3	A1	4
MAT181	Mathematics I	Compulsory	4	A1	4
MKM103	Introduction to Mechanical Engineering	Elective	2	A1	2
MKM105	Computer Aided Technical Drawing I	Compulsory	3	B1	4
TUR181	Turkish Language I	Compulsory	2	B1	2
YDL181	Foreign Language I	Compulsory	2	A2	2
Semester 2					
AIT182	Atatürk's Principles and History of Revolutions II	Compulsory	2	A1	2
BLM182	Computer Programming	Compulsory	3	B2	3
FIZ182	Physics II	Compulsory	4	B1	4
GSR182	Fine Arts (Photo) II	Elective	2	A1	2
MAT182	Mathematics II	Compulsory	4	A2	4
MAT184	Linear Algebra	Compulsory	3	C	4
MKM104	Statics	Elective	4	B2	4
MKM106	Computer Aided Technical Drawing II	Compulsory	3	B2	3
TUR182	Turkish Language II	Compulsory	2	A2	2
YDL182	Foreign Language II	Compulsory	2	A2	2
Semester 3					
MAT281	Differential Equations	Compulsory	3	A1	4
MKM200	Practice I	Compulsory	0	G	2
MKM203	Strength of Materials	Elective	4	B2	5
MKM205	Materials Science	Compulsory	3	B2	3
MKM207	Dynamics	Compulsory	4	C	5
MKM209	Measurement Techniques I	Compulsory	2	A1	3
MKM211	Basic Electrical and Elektronics	Elective	2	A2	3
SOS209	Labour Law	Elective	2	B2	2
YDL281	Technical Foreign Language 1	Compulsory	2	A1	3
Semester 4					
MAT284	Numerical Analysis	Elective	3	A2	4
MKM204	Engineerring Materials	Elective	3	A2	3
MKM206	Termodynamics I	Compulsory	3	C	4
MKM208	Engineering Statistics	Compulsory	2	A2	3
MKM210	Measurement Techniques II	Compulsory	2	B2	3
MKM212	Mechanisms	Compulsory	3	A1	4
MKM214	Manufacturing Processes	Compulsory	3	B1	4
SOS202	Work Security	Elective	2	A2	2
YDL282	Professional Foreign Language (English) II	Compulsory	3	A2	3
Semester 5					
MCE309	Hydraulics and Pneumatics	Compulsory	3	A2	3
MCE311	Heating Technology	Elective	3	C	4
MKM301	Fluid Mechanics I	Compulsory	3	B1	3
MKM305	Heat Transfer	Compulsory	3	B1	3
MKM307	Dynamics of Machinery	Compulsory	3	A2	3
MKM317	Plumbing Systems and Design	Elective	2	B2	3
MKM325	Machine Elements I	Compulsory	3	A1	3
SOS381	Values Educaion	Elective	2	A2	2
YDL381	Speaking and Reading Tech. at Foreign Language	Compulsory	2	A1	2
ERSMKM399	Industrial Practice I	Compulsory	0	G	4
Semester 6					
ENM360	Engineering Economy	Compulsory	2	B1	3
MCE310	System Dynamics and Controls	Compulsory	3	B1	3
MCE314	Refrigeration Technology	Elective	3	B1	6
MKM302	Mechanical Engineering Laboratory	Compulsory	2,5	C	3
MKM304	Fluid Mechanics II	Compulsory	3	B1	3
MKM322	Energy Management	Elective	2	A1	5
MKM330	Machine Elements II	Compulsory	3	A1	3
MSD308	Occupational Health and Safety	Elective	2	A2	2
YDL382	Foreing Language For Business	Compulsory	2	A1	2
Semester 7					
ATE461	Engines	Compulsory	3	C	3
MCE407	Basics of Hvac	Elective	3	A2	5
MCE409	Heat Exchangers	Elective	3	A2	5
MKM401	Factory Organization	Compulsory	2	B1	3
MKM403	Machine Project I	Compulsory	2	A1	2
MKM419	Thermal Insulation	Elective	2	B1	4
MKM427	Heat Pumps	Elective	2	B2	4
MKM499	Industrial Practice II	Compulsory	0	G	4
Semester 8					
MCE406	Control Elements and Applications	Compulsory	3	A2	4
MCE408	Thermic Turbo Mchines	Elective	3	A1	6
MCE412	Thermal System Design	Elective	3	A1	6
MKM400	Graduation Thesis	Compulsory	1	A1	2
MKM404	Machine Project II	Compulsory	2	A1	2
MKM430	Air Conditioning and Ventilation Systems Design	Elective	2	A1	4
MKM436	Industrial Energy Efficiency	Elective	2	B1	4
MUH402	Engineering Ethics	Compulsory	2	B1	2

TOTAL CREDITS: 183,5 **TOTAL ECTS CREDITS: 240** **CGPA: 3.30**

* ERS coded courses were taken under the Erasmus/LLP Exchange Programme
* FRB coded courses were taken under the Farabi Exchange Programme
* MVL coded courses were taken under the Mevlana Exchange Programme

Your International Training Ltd, Ireland
The student attended one year compulsory preparatory language programme (English) and succesfully completed it.

4.4. Grading scheme and, if available, grade distribution guidance:

For each course taken, the student is given one of the following grades by the course teacher. The letter grades, grade points and percentage equivalents are given below.

A1	4.0	90-100	Excellent
A2	3.5	80-89	Excellent-Very Good
B1	3.0	70-79	Very Good
B2	2.75	65-69	Good
C	2.5	60-64	Satisfactory
G			Sufficient
F1			Fail
F2			Fail
F3			Fail
K			Fail

4.5. Overall classification of the qualification (in original language):

Genel Not Ortalaması: 3.30/ 4.00 (İyi-Pekiyi)

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:

In this programme, 30 % of all the courses in the curriculum are given in English.

6.2. Further information sources:

The Council of Higher Education web site: www.yok.gov.tr
Turkish ENIC-NARIC Web Site: www.enic-naric.net/index.aspx?c=Turkey
Online course catalogue: http://ubys.karabuk.edu.tr/bologna/curriculum.aspx?id=152&lang=en&y=09
Department web site: http://muh.karabuk.edu.tr/makine/defaulteng.htm

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date:

11.04.2016

7.2. Name and signature:

Mustafa CÜNÜK

7.3. Capacity:

Head of Student Affairs

7.4. Official stamp or seal: