



# Boğaziçi University

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## Diploma Supplement

**Diploma No:**

13099

**Diploma Date:**

16 Haziran 2016 / June

16, 2016

The Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of 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-judgments, 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) : EKEN  
1.2. Given name (s) : MUSTAFA ONUR  
1.3. Date of birth : 08.04.1993  
1.4. Student identification number : 2011400186

### 2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1. Name of the qualification: Bilgisayar Mühendisliği, Lisans  
2.2. Main field (s) of study for qualification : Computer Engineering  
2.3. Name and status of awarding institution : Boğaziçi Üniversitesi, Devlet Üniversitesi  
2.4. Name and status of institution administering studies : Same as 2.3  
2.5. Language (s) of instruction/examination : English

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

- 3.1. Level of qualification : First Cycle (Bachelor's Degree).  
3.2. Official length of program : 4 years, 2 semesters per year, 16 weeks per semester .  
3.3. Access requirement(s) : High school diploma & placement through a centralized national university placement examination. Certificate of English proficiency is also required.

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

- 4.1. Mode of study: Full-time  
4.2. Program requirements:

The Bachelor's Degree is awarded to students who have successfully completed all courses in the curriculum, including a 60 day-industrial training period, and have obtained a cumulative grade point average of 2.00 out of 4.00 without a failing grade.

#### Program Objectives:

- Provide students with the necessary analytical, mathematical, decision-making, computing, communication, teamwork and leadership skills in computer hardware, software and information systems.
- Educate students to be economically, socially and ethically conscious lifelong-learners to adapt to the changing requirements of the workplace.

### 4.3. Program details and individual grade/marks obtained

Code	Name		ECTS Credits	Boğaziçi Credits	Grades
CHEM105	FUNDAMENTALS OF CHEMISTRY	Required	6	4	BA
CMPE150	INTRODUCTION TO COMPUTING	Required	5	3	BA
EC 101	PRINCIPLES OF MICROECONOMICS	Required	5	3	AA
MATH101	CALCULUS I	Required	6	4	BB
PE 141	ELEMENTARY SWIMMING	Elective	2	1	P/NC
PHYS121	INTRODUCTORY MECHANICS & THERMODYNAMICS	Required	8	4	AA
AE 221	CRITICAL READING	Elective	4	3	BB
CMPE160	INTRODUCTION TO OBJECT ORIENTED PROG.	Required	8	4	CB
EC 102	PRINCIPLES OF MACROECONOMICS	Required	4	3	BA
MATH102	CALCULUS II	Required	6	4	AA
PE 142	ADVANCED SWIMMING	Elective	2	1	P/NC
PHYS201	PHYSICS III	Required	6	4	BB
CMPE220	DISCRETE COMPUTATIONAL STRUCTURES	Required	5	3	CC
CMPE250	DATA STRUCTURES & ALGORITHMS	Required	6	4	BB
EE 210	INTRODUCTION TO ELECTRICAL ENGINEERING	Required	6	3	BA
MATH201	MATRIX THEORY	Required	5	4	CB
PE 123	TENNIS I	Elective	2	1	P/NC
PHYS202	PHYSICS IV	Required	6	4	BA
TK 221	TURKISH FOR NATIVE SPEAKERS I	Required	3	2	BB
CMPE230	SYSTEMS PROGRAMMING	Required	6	4	BA
CMPE240	DIGITAL SYSTEMS	Required	6	4	CB
CMPE260	PRINCIPLES OF PROGRAMMING LANGUAGES	Required	5	3	BA
EE 212	INTRODUCTION TO ELECTRONIC ENGINEERING	Required	4	3	BA
MATH202	DIFFERENTIAL EQUATIONS	Required	7	4	BA
PE 124	TENNIS II	Elective	2	1	P/NC
TK 222	TURKISH FOR NATIVE SPEAKERS II	Required	3	2	BB
CMPE300	ANALYSIS OF ALGORITHMS	Required	5	3	AA
CMPE322	OPERATING SYSTEMS	Required	6	4	BA
CMPE343	INTRO.TO PROBA.&STATIS.FOR COM.ENGINEERS	Required	6	3	BB
CMPE344	COMPUTER ORGANIZATION	Required	6	4	AA
HTR 311	HISTORY OF THE TURKISH REPUBLIC I	Required	3	2	BB
IE 310	OPERATIONS RESEARCH	Required	5	4	BB
CMPE321	INTRODUCTION TO DATABASE SYSTEMS	Required	6	4	AA
CMPE350	FORMAL LANGUAGES & AUTOMATA THEORY	Required	5	3	AA
CMPE352	FUNDAMENTALS OF SOFTWARE ENGINEERING	Required	4	2	BB
CMPE362	INTRO.TO SIGNAL PROC. FOR COMPUTER.ENG.	Required	6	3	AA
HTR 312	HISTORY OF THE TURKISH REPUBLIC II	Required	3	2	BA
IE 306	SYSTEMS SIMULATION	Required	7	4	BA
CMPE434	INTRODUCTION TO ROBOTICS	Elective	6	3	BA
CMPE443	PRINCIPLES OF EMBEDDED SYSTEMS DESIGN	Required	6	4	BA
CMPE451	PROJECT DEVELOPMENT IN SOFTWARE ENG.	Required	5	2	AA
CMPE475	COMPUTER NETWORKS	Elective	6	3	AA
CMPE540	PRINCIPLES OF ARTIFICIAL INTELLIGENCE	Elective	8	3	AA
CMPE462	MACHINE LEARNING	Elective	6	3	AA
CMPE482	SP.TP.NUMERICAL LINEAR ALGEBRA&ITS APPL.	Elective	5	3	AA
CMPE492	PROJECT	Required	7	4	AA
CMPE548	MONTE CARLO METHODS	Elective	8	3	AA
STS 302	ARCHEOMETRY II	Elective	4	3	AA

Total Boğaziçi Credits: 145 + 0, Total ECTS Credits:251

#### 4.4. Grading Scheme and Grade

After evaluating all the exams and assignments of each course, the course instructor assesses the success of students in term of the grades below:

<u>Grade</u>		<u>Weight</u>
AA	Excellent	4.00
BA	Good-Excellent	3.50
BB	Good	3.00
CB	Passing-Good	2.50
CC	Passing	2.00
DC	Passing-Poor	1.50
DD	Poor	1.00
F	Failed	0
P	Pass	
I	Incomplete (additional time given by instructor to complete the work)	
R	Repeat the course	
W	Withdrawn from the course	
L	On leave	
NC	Non-credit	
NP	Not-present	

**Grade Point Average (GPA):** The student's standing is observed in the form of SPA (Semester Point Average) and GPA (Grade Point Average), which are obtained by dividing honour points by credit load. (Honour points are the sum total of credits multiplied by grade weight). GPA is calculated by dividing a student's total honour points by the total number of credits he/she has attempted.

**4.5. Overall Classification of the Qualification** : Genel Not Ortalaması: 3.46/4.00 Onur  
Cumulative Grade Point Average: 3.46/4.00 Honor

#### 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** : All of the engineering programs are accredited by ABET (Accreditation Board for Engineering and Technology) since 1998.  
**6.2. Further Information sources** : [www.boun.edu.tr](http://www.boun.edu.tr)  
[www.cmpe.boun.edu.tr](http://www.cmpe.boun.edu.tr)  
The Council of Higher Education web site: [www.yok.gov.tr](http://www.yok.gov.tr)  
ENIC/NARIC web site: [www.enic-naric.net](http://www.enic-naric.net)

#### 7. CERTIFICATION OF THE SUPPLEMENT

- 7.1. Date** : 07.09.2016  
**7.2. Name and Signature** : ZELİHA BALKAN  
**7.3. Capacity** : Öğrenci İşleri Daire Başkanı (Registrar)  
**7.4. Official stamp or seal** :



## 8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

The Basic Structure of the Turkish National Education System consists of four main stages as pre-school education, primary education, secondary education and higher education.

Pre-school education consists of non-compulsory programmes whereas primary education is a compulsory 8 year programme for all children beginning from the age of 6. The secondary education system includes "General High Schools" and "Vocational and Technical High Schools".

Higher Education is defined as all post-secondary programmes with a duration of at least two years. The system consists of universities (state and non-profit foundation) and other types of higher education institutions (police and military academies and foundation vocational schools). Each university consists of faculties and schools offering First Cycle (Bachelor's level) programmes (240 ECTS), two year vocational higher schools offering Short Cycle (Associate's level) programmes (120 ECTS) of a strictly vocational nature and also graduate schools administering graduate programmes.

The Higher Education Law No. 2547 is the main law, which governs the higher education in Turkey. All universities (both state and non-profit foundation) are subject to the same law and regulations/rules. All state and non-profit foundation universities are founded by Law. The Higher Education System is regulated by the Council of Higher Education (Yüksek Öğretim Kurulu-YÖK) established in 1981, the Council regulates the activities of higher education institutions with respect to research, governing, planning and organization.

Admission to higher education is based on a nation-wide Student Selection Examination (ÖSS). The examination is held once a year and is administered by the Assessment, Selection and Placement Center (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.

Graduate level of study consists of the Second Cycle (Master's Degree) and the Third Cycle (PhD/Doctorate Degree) programmes. There are two types of Master's programmes: with or without a thesis. The Master's programmes with a thesis have 90-120 ECTS and consist of a minimum of seven courses, with a minimum of 21 national credits, one seminar course, and a thesis. The seminar course and thesis are non-credit and graded on a pass/fail basis. The duration of the Master's programmes with a thesis is four semesters. Non-thesis Master's programmes have a minimum of 60 ECTS and consist of a minimum of 10 courses with a minimum of 30 national credits and a non-credit semester project. The semester project is graded on a pass/fail basis. Duration of the non-thesis Master's programmes is three semesters. PhD programmes have 180-240 ECTS and duration of eight semesters which consists of completion of a minimum of seven courses, with a minimum of 21 national credits, passing a qualifying examination, preparing and defending a doctoral dissertation. Specialization in Medicine accepted as equivalent to third cycle programmes are carried out within the faculties of medicine, university hospitals and the training hospitals owned by the Ministry of Health.

Since 2003, a change in the 1996 Regulations on Graduate Education allows Bachelor's degree holders to PhD programmes if their performance at the Bachelor's degree level is exceptionally high and their application is approved. For these students, the theoretical part of the PhD programmes consists of a minimum of 14 courses, with a minimum of 42 national credits.

\*The national credit system is based on contact hours (i.e. theoretical or practical hours per week). 1.0 credit stands for each hour of lecture a week and 0.5 credit stands for each hour of laboratory or practical a week.

### GENERAL STRUCTURE OF THE TURKISH EDUCATION SYSTEM

