

## 7. CERTIFICATION OF THE SUPPLEMENT

- 7.1. Date : 19.07.2013
- 7.2. Name and Signature : Hasibe CELEN
- 7.3. Capacity : General 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)-(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.

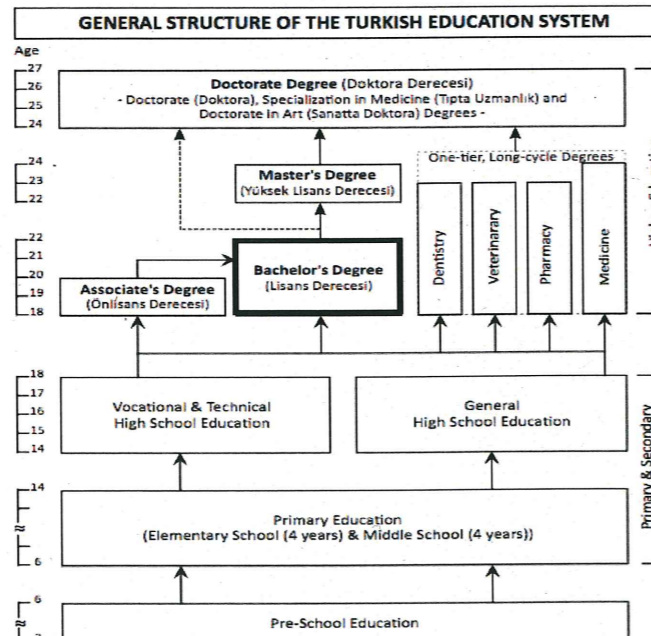
Since 2003, first cycle degree holders may apply directly to third cycle (doctorate) programmes if their performance at the first cycle degree level is exceptionally high and their national central Graduate Education Entrance Examination (ALES) score is also high and their application is approved. For 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



## Ege Üniversitesi Diploma Supplement

Diploma No : 2012/05/0264

Diploma Date : 26.06.2013

Ege University  
Bornova/Izmir-Turkey 35040  
Phone: +90 232 388 01 10 Fax: +90 232 339 90 90  
+90 232 388 40 00 +90 232 339 90 91  
www.ege.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 the 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) : XXXXXX
- 1.2. Given name(s) : XXXXXX
- 1.3. Date of birth : XXXXXXXX
- 1.4. Student identification number : XXXXX

### 2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1. Name of the qualification and title conferred  
**Kimya Mühendisliği, Lisans (Bachelor's Degree in Chemical Engineering)**  
**Kimya Mühendisi (Chemical Engineer)**
- 2.2. Main field(s) of study for the qualification  
**Engineering Sciences**
- 2.3. Name and status of awarding institution  
**Ege Üniversitesi, Devlet Üniversitesi**  
**Ege University, State University**
- 2.4. Name and type 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 programme:  
**4 years**  
**2 semesters per year, 16 weeks per semester**
- 3.3. Access requirements(s):  
**High School Diploma**  
**Placement through a nation-wide Student Selection and Placement Examinations (YGS and LYS)**  
**Certificate of English Proficiency (acceptable score from proficiency exam organized by the school of Foreign Languages in Ege University or equivalent (TOEFL score 530 (on computer 197, on internet 79) or IELTS score 7.0 or Cambridge FCE score B))**





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

##### 4.1. Mode of study:

Full-time

##### 4.2. Programme requirements:

The Bachelor's Degree is awarded to students who have successfully completed all courses in the curriculum, including an 8-week industrial training period, and have obtained a cumulative grade point average of at least 2.00 on a 4.00 scale and have got no failing grades.

##### Objectives

The graduates of the Chemical Engineering Programme are expected to: - have the fundamentals of contemporary chemical engineering - familiarise students with the entire spectrum in the journey from the conception of an idea to the production of many goods used in our daily lives - apply mathematical, scientific and engineering principles in design, operation, research and development of chemical processes - engage in adopting and developing new technology - demonstrate skills in critical analysis of engineering problems - demonstrate communication and technical leadership skills - demonstrate ethical and professional standards in their industrial and/or academic practice

##### 4.3. Programme details (e.g., modules or units studied), and the individual grades/marks/credits obtained:

Code	Course Title	Course Category	ECTS	Credits	Grade
503000011994	PREPARATORY CLASS (ENGLISH)	Required	60		77
<b>Semester I</b>					
503001012006	CALCULUS-I	Required	6		CC
503001052006	CHEMISTRY-I	Required	4		BB
503001072010	COMPUTER (BASIC SKILLS IN COMPUTER)	Required	5		BB
503001152006	ENGINEERING MECHANICS	Required	5		CB
503001172006	STRATEGIES IN PROBLEM SOLVING	Required	4		CB
503001192006	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY I	Required	2		CC
503001212006	TURKISH LANGUAGE-I	Required	2		BA
503001222011	TRANSITION INTO UNIVERSITY LIFE	Required	2		M
<b>Semester II</b>					
503001022006	CALCULUS-II	Required	5		CC
503001042006	PHYSICS	Required	4		AA
503001062006	CHEMISTRY-II	Required	3		CB
503001092011	ORIENTATION TO CHEMICAL ENGINEERING	Required	3		CC
503001122002	COMPUTER PROGRAMMING	Required	4		CC
503001142006	CHEMISTRY LABORATORY	Required	3		CB
503001162006	TECHNICAL COMMUNICATION	Required	4		BA
503001182006	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY II	Required	2		BB
503001202006	TURKISH LANGUAGE-II	Required	2		AA
<b>Semester III</b>					
503002012007	DIFFERENTIAL EQUATIONS	Required	5		CC
503002092007	CHEMICAL PROCESS CALCULATIONS	Required	6		CC
503002111994	ORGANIC CHEMISTRY	Required	3		BB
503002131994	PRACTICAL TRAINING-I	Required	3		G
503002152007	MOLECULAR TRANSPORT	Required	4		CC
503002192007	THERMODYNAMICS	Required	5		CC
503002212007	ENGINEERING GRAPHICS	Required	4		CB
<b>Semester IV</b>					
10520301E11222	COMMUNITY SERVICE ACTIVITIES	Required	1		M
503002022007	NUMERICAL ANALYSIS	Required	5		BB
503002102007	FLUID MECHANICS	Required	6		CB
503002131994	PRACTICAL TRAINING-I	Required	3		G
503002142007	PHYSICAL CHEMISTRY	Required	4		BB
503002162008	CHEMICAL ENGINEERING THERMODYNAMICS	Required	5		CC
503002182007	MATERIALS SCIENCE	Required	3		CB
503002202007	CONCEPTUAL DESIGN -I	Required	3		BB
<b>Semester V</b>					
503003012008	HEAT TRANSFER PROCESSES	Required	6		CC
503003032008	MASS TRANSFER PROCESSES	Required	6		CB
503003071994	INSTRUMENTAL ANALYSIS	Required	5		CC
503003111994	ECONOMICS	Required	2		BA
503003231994	PRACTICAL TRAINING-II	Required	3		G
503003452008	REACTION ENGINEERING - I	Required	5		AA
503003372008	STRUCTURE AND PROPERTIES OF POLYMERS	Elective	3		CB
<b>Semester VI</b>					
503003022008	SIMULTANEOUS HEAT AND MASS TRANSFER PROCESSES	Required	3		BB
503003042008	CHEMICAL ENGINEERING ECONOMICS	Required	3		BA
503003061994	PROCESS SAFETY AND HAZARDS PREVENTION	Required	3		BB
503003102008	CHEMICAL ENGINEERING LABORATORY I	Required	7		BB
503003231994	PRACTICAL TRAINING-II	Required	3		G
503003842008	REACTION ENGINEERING II	Required	5		BA
503003862008	CONCEPTUAL DESIGN II	Required	3		BB
503003922009	BIO-NANO COMPOSITES	Elective	3		BA
<b>Semester VII</b>					
503004002009	DIPLOMA PROJECT	Required	7		AA
503004011994	CHEMICAL ENGINEERING DESIGN	Required	8		BA
503004032009	CHEMICAL ENGINEERING LABORATORY II	Required	7		AA
503004051994	INORGANIC TECHNOLOGY	Required	2		BB
503004071994	MODELLING AND SIMULATION	Required	3		BB
503004371994	ADSORPTION	Elective	3		BA
<b>Semester VIII</b>					
503004002009	DIPLOMA PROJECT	Required	7		AA
503004011994	CHEMICAL ENGINEERING DESIGN	Required	8		BA
503004022009	PROCESS CONTROL	Required	5		BB

503004041994  
503004321994  
503004962009

ORGANIC TECHNOLOGY  
DETERGENCY  
HISTORY AND PHILOSOPHY OF SCIENCE

Required 4 CB  
Elective 3 AA  
Elective 3 AA

Total Credits ( excluding preparatory class ) 240

##### 4.4. Grading scheme and grade distribution guidance

For each course taken, one of the following letter grades is given to the student by the course teacher. A student who holds either of the grades (AA), (BA), (BB), (CB) and (CC) is considered successful in that course. The letter grades and equivalents on 4.00 scale are featured below:

Letter Grade	Equivalents on 4.00 Scale	Degrees of Success
AA	4.00	Pass
BA	3.50	Pass
BB	3.00	Pass
CB	2.50	Pass
CC	2.00	Pass
DC	1.50	Pass on Probation
DD	1.00	Pass on Probation
FD	0.50	Fail
FF	0.00	Fail - Not Attended

In some courses such as work placement, internship, seminar etc. the grade of G is given to the student who is fulfilling successfully the required tasks in the course. The grade of S is used for courses that a transfer student has taken earlier and the course's equivalency with the programme is approved by the Faculty Executive Board upon the request of the department. The grade of M is given to the student who exempted for the courses determined by the University Senate. The student's academic standing is calculated in the form of a Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) out of a scale of 4.00 and announced at the end of each semester by the Registrar's Office. The total credit points for a course are obtained by multiplying the equivalents on 4.00 scale of the final grade by the credits of the course. A student's GPA for any given semester is calculated by dividing the total credit points by the total credits. The CGPA is calculated by taking into account all the courses taken by a student from the beginning of entrance to the University. The grades of G, S and M are not included in the calculation of CGPA.

The grade system based on 100 scale is used for the assessment of success in Preparatory Class. The students having the grades between 70 and 100 are assumed to be successful.

The graduates having the the CGPAs are awarded by the following qualifications.

Cumulative Grade Point Average, CGPA

Qualification

4.00-3.50	Yüksek Onur Derecesi (High Honors Degree)
3.00-3.49	Onur Derecesi (Honors Degree)
2.50-2.99	İyi (Good)
2.00-2.49	Orta (Satisfactory)

##### 4.5. Overall classification of the qualification

Cumulative Grade Point Average	2,91
Final Grade of the degree	İyi (Good)

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

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

May apply to second cycle programmes

##### 5.2. Professional status

This degree enables the holder to exercise the profession

#### 6. ADDITIONAL INFORMATION

##### 6.1. Additional information:

Chemical Engineering Department

<http://www.chemeng.ege.edu.tr>

The Four Year First Cycle (BSc) Programme of Chemical Engineering Department is accredited by MÜDEK (Association for Evaluation and Accreditation of Engineering Programmes) (<http://www.mudek.org.tr>) for 2006 - 2016

##### 6.2. Further information sources:

University web site: [www.ege.edu.tr](http://www.ege.edu.tr)

The Council of Higher Education web site: [www.yok.gov.tr](http://www.yok.gov.tr)

The Turkish ENIC-NARIC web site: <http://enic-naric.net/index.aspx?c=Turkey>