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.

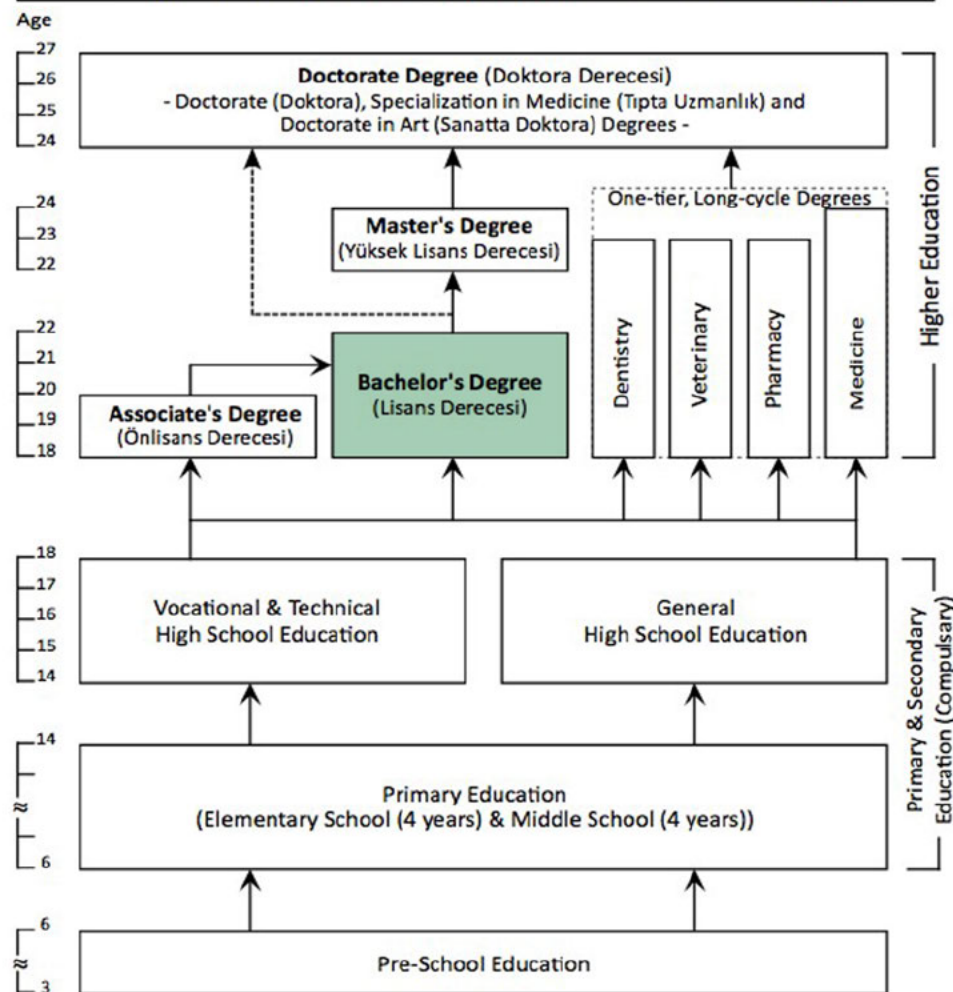**The Turkish National Qualifications Framework for Higher Education (TYYÇ):**

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.

TYÇÇ LEVELS, QUALIFICATIONS TYPES AND ECTS CREDITS

Higher Education Levels/Cycles			AWARDS/ DEGREES	LENGTH (Year)	TOTAL ECTS CREDITS (Year)	TOTAL STUDENT WORKLOAD (h) (1 ECTS=25-30h)
QF-EHEA	EQF-LLL	TYYÇ LEVELS				
3	8	8	Doctorate	3 (min.)	180 (min.)	4.500-5.400
			Specialization in Medicine			
			Doctorate in Art			
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

ÇUKUROVA ÜNİVERSİTESİ
DIPLOMA SUPPLEMENT

Çukurova University Rectorate, 01330 Balcalı, Adana-Turkey
Phone:+90.322.338 60 84   Fax: +90.322.322 60 85   http://www.cukurova.edu.tr

Diploma No
556▬

Diploma Date
14 October 2022

1-INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s)   : ▬
1.2 Given name(s)   : ▬
1.3 Date of birth   : ▬
1.4 Student identification number   : ▬

2-INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of the qualification and title conferred (in original language) : Bilgisayar Mühendisliği (İngilizce), Lisans

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

2.3 Name and status of awarding institution (in original language) : Çukurova 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 programme : 4 years, 2 semesters per year, 17 weeks per semester

3.3 Access requirement(s) : High school diploma.
Admission to higher education is based on a nation-wide Student Selection Examination (ÖSS).

4-INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study
FullTime

4.2 Programme requirements
The associate degree is awarded to students who have successfully completed all courses in the curriculum, including two twenty-day industrial practices, and have obtained a cumulative grade point average of at least 2.00 on a 4.00 scale.

Objectives
To provide a contemporary computer engineering education
To provide students with an analytical and algorithmic thinking capability
To prepare students for a dynamically changing scientific and industrial world.

4.3 Programme details and the individual grades/marks obtained

Code	Title of Course	Course Category	Credit	Grade	ECTS	Code	Title of Course	Course Category	Credit	Grade	ECTS
2018-19 Fall											
CEN107	Mathematics 1	Compulsory	4,0	CC	5	CEN111	Algorithms and Programming I	Compulsory	3,0	BB	4
CEN113	Algorithms and Programming Lab. I	Compulsory	1,0	CC	2	CEN115	Academic Oral Presentation	Compulsory	3,0	CC	3
CEN117	Introduction to Computer Engineering	Compulsory	3,0	AA	6	CEN119	Linear Algebra	Compulsory	3,0	CC	5
CEN123	General Physics 1	Compulsory	3,0	CB	5						
2019-20 Fall											
CEN201	Object Oriented Programming	Compulsory	3,0	DD	5	CEN209	Differential Equations	Compulsory	3,0	DC	4
CEN219	Electronics Lab.	Compulsory	1,0	DD	1	CEN265	Digital Design Lab	Compulsory	1,0	CB	2
UTD201	Turkish Language I	Compulsory	2,0	BB	2						
2019-20 Spring											
CEN106	Mathematics 2	Compulsory	4,0	AA	5	CEN114	Technical Writing	Compulsory	3,0	CC	3
CEN116	Algorithms and Programming II	Compulsory	3,0	BB	4	CEN118	Algorithms and Programming Lab. II	Compulsory	1,0	DD	2
CEN124	Circuit Theory	Compulsory	3,0	CB	4	CEN126	Circuit Lab	Compulsory	1,0	AA	2
CEN128	General Physics 2	Compulsory	3,0	BA	5	CEN130	Discrete Mathematics	Compulsory	3,0	CB	5
CEN210	Probability and Statistics	Compulsory	3,0	AA	6	CEN216	Object Oriented Programming Lab.	Compulsory	1,0	CC	2
UTD202	Turkish Language II	Compulsory	2,0	CC	2						
2020-21 Fall											
CEN213	Data Structures	Compulsory	3,0	CC	5	CEN217	Electronics	Compulsory	3,0	AA	5
CEN263	Digital Design	Compulsory	3,0	DD	4	CEN301	Data Management and File Structures	Compulsory	3,0	DC	6
CEN343	Theory of Computation	Compulsory	3,0	BA	5	CEN345	Algorithms	Compulsory	3,0	CC	5
CEN347	Computer Organization	Compulsory	3,0	AA	4	CEN349	Computer Organization Lab	Compulsory	1,0	AA	2
UAI301	Principles of Atatürk and History of Turkish Revolution I	Compulsory	2,0	CB	2						
2020-21 Spring											
CEN202	Programming Languages	Compulsory	3,0	CB	6	CEN204	Numerical Analysis	Compulsory	3,0	CB	6
CEN212	Microprocessors	Compulsory	3,0	CC	3	CEN214	Microprocessors Lab.	Compulsory	1,0	BB	2
CEN218	Signals and Systems	Compulsory	3,0	AA	3	CEN344	Computer Networks	Compulsory	3,0	AA	3
CEN346	Computer Networks Lab	Compulsory	1,0	AA	2	CEN348	Artificial Intelligence Systems	Compulsory	3,0	CB	5
CEN354	Operating Systems	Compulsory	3,0	CC	5	SD0051	Physics in the environment	Compulsory	2,0	BB	3
UAI302	Principles of Atatürk and History of Turkish Revolution II	Compulsory	2,0	BB	2						
2021-22 Fall											
CEN215	Data Structures Lab.	Compulsory	1,0	DC	2	CEN351	Linear Systems	Compulsory	3,0	CB	3
CEN419	Introduction to Java Programming	Elective	3,0	DC	6	CEN421	System Analysis and Design	Elective	3,0	BA	6
CEN429	Introduction to Data Science	Elective	3,0	BB	6	CEN435	Occupational Health and Safety I	Compulsory	2,0	CB	3
CEN481	Introduction to Data Mining	Elective	3,0	BB	6	SD0299	R - D and Innovation Culture	Compulsory	2,0	CC	3
SD0301	ways of personal success	Compulsory	2,0	AA	3						
2021-22 Spring											
CEN350	Database Management Systems	Compulsory	3,0	CC	5	CEN352	Software Engineering	Compulsory	3,0	CC	5
CEN436	Occupational Health and Safety II	Compulsory	2,0	DC	3	CEN438	Graduation Thesis	Compulsory	2,0	AA	6
CEN446	Human Computer Interaction	Elective	3,0	CB	6	CEN458	Network Management and Administration	Elective	3,0	AA	6
CEN460	Network Security	Elective	3,0	AA	6	SD0291	Basketball Education Of Fundamental	Compulsory	2,0	BA	3

Total ECTS Credits : 240
CGPA : 2.74

4.4 Grading scheme and 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:

COURSE GRADE	GRADE POINTS
AA	4.00
BA	3.50
BB	3.00
CB	2.50
CC	2.00
DC	1.50
DD	1.00
FF	0.00

A grade of (I) is given to a student who provides supporting evidence through genuine and valid documentation of illness or other reason which has prevented her/him from completing the necessary course work. In such a case, within 15 days from the day of submitting the grades to the Registrar's Office, the student required complete the missing work and obtain a grade. Otherwise, the (I) grade will automatically become an (FF).

The grade (S) is given to the students who are successful in non-credit courses, and (U) to those who are unsuccessful in such courses. (S) can also be given to courses accepted as equivalents in transfers from other universities.

The grade (P) is given to students who are successful in taking non-credit courses.

The grade (EX) is given to students who are found successful in the examination for exemption conducted by the department concerned for courses determined by the University Senate. The (EX) grade is not included in computing the grade point average (GPA) but is shown on the transcript.

The grade (NI) is given if courses within the programme or programmes in which a student is registered are taken on the "condition that they are not included in the Cumulative Grade Point Average (CGPA)".

The grade (NA) is given if a student does not fulfill the attendance and/or application requirements of the course. The grade (NA) is included in the CGPA as (FF).

The grade (W) is given if a student withdraws from a course after the add/drop period within the first 10 weeks after the semester starts, with the recommendation of her/his advisor and the permission of the instructor concerned.

Grade Point Averages: The student's standing is calculated in the form of a GPA and CGPA, 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 grade point of the final grade by the credit hours. In order to obtain the GPA for any given semester, the total credit points earned in that semester are divided by the total credit hours. The CGPA is calculated by taking into account all the courses taken by a student from the beginning of entrance to the University which are recognized as valid by the Department in which she/he is registered.

4.5 Overall Classification of the Qualification (in original language)

Geçer	2.00-2.49	10
	2.50-2.99	6
Şeref Listesi	3.00-3.49	1
Yüksek Şeref Listesi	3.50-4.00	1

5-INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study: May apply to graduate programme

5.2 Professional status :

This degree enables the graduate to exercise the profession

6-ADDITIONAL INFORMATION

6.1 Additional information:
international@cukurova.edu.tr

6.2 Further information sources
University web site: www.cukurova.edu.tr
The Council of Higher Education we site: http://www.yok.gov.tr
The Turkish ENIC-NARIC web site: http://www.enic-naric.net/members.asp?country=Turkey

7-CERTIFICATION OF THE SUPPLEMENT

7.1 Date : 14 October 2022

7.2 Signature :

7.3 Capacity : Registrar of the University of Cukurova

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 hesis. 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.