



KIRIKKALE UNIVERSITY

DIPLOMA SUPPLEMENT

Kırıkkale Üniversitesi Rektörlüğü
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Diploma Date : 28.01.2013
Diploma No : 000076

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 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	2. INFORMATION IDENTIFYING THE QUALIFICATION
1.1. Family Name(s) : ██████████	2.1 Name of the Qualification Elektrik-Elektronik Mühendisliği , Lisans Derecesi
1.2. Given Name(s) : ██████████	2.2 Main field(s) of study for the qualification Electrical & Electronics Engineering
1.3. Date of Birth : ██████████	2.3 Name and Status of Awarding Institution Kırıkkale Üniversitesi, Devlet Üniversitesi
1.4. Student Identification Number : ██████████	2.4 Name and Status of Awarding 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), Level 6 in the Turkish Qualification Framework for Higher Education
3.2 Official Length of Program 4 years, 8 semesters, 240 ECTS
3.3 Access Requirements - High School Diploma. - Placement through centralised nation-wide Student Selection and Placement Examinations (YGS & LYS). Candidates gain access to the programme based on their composite scores consisting of the scores on the selection examinations and their high school grade points averages. - For holders of short-cycle degree diplomas of related programmes of vocational schools(MYO's); placement through a centralized, nation-wide Vertical Transfer Examination(Dikey Geçiş Sınavı)

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED
4.1 Mode of study Full-time
4.2 Program Requirements This degree is awarded to the students who have successfully completed all the courses in the curriculum and have a Cumulative Grade Point Average CGPA of 60/100 and 240 ECTS.
Objectives The objective of the electrical-electronics engineering program is to train engineers with the sufficiency and ability to compete at worldwide level, communicating efficiently, working individually and in a team, adopting life-long learning, following the improvement in his field and adding value to those, proposing forward-looking solutions to society's problems, having self faith, delicate to universal values, obeying the ethics and aware of his responsibilities, producing and passing around knowledge and technology necessary for the societies. Upon successful completion of the programme, the student:
Knowledge <ul style="list-style-type: none">- has theoretical knowledge of mathematics, science, and engineering.- defines electrical and electronics engineering problems.- recognizes the equipments used in the field of electrical and electronics engineering.- has theoretical knowledge of electrical and electronics Engineering problems under the constraints and conditions of stability, robustness, applicability, and manufacturability.
Skills <ul style="list-style-type: none">- uses information technologies for engineering applications effectively.- designs functional hardware and software systems.- makes effective usage of the tools and software related to electrical and electronics engineering.- chooses and uses innovative approaches and devices needed for engineering applications.
Competences <ul style="list-style-type: none">- updates himself/herself according to improvements and innovations in electrical and electronics engineering area continuously- has an understanding of specialist and moral accountability.- has a capability to involve in life-long learning.

Prof. Dr. Hakan KOCAMIS
Vice Rector
Erasmus Institutional Coordinator



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4.3. Programme details and the individual grades/marks obtained:

Code	Course Name	Category	National Credits	ECTS	Grades
Semester 1					
0204101	MATHEMATICS I	Compulsory	4	6	C
0204102	PHYSICS I	Compulsory	4	6	B2
0204103	CHEMISTRY	Compulsory	4	6	C
0204104	INTRODUCTION TO ENGINEERING	Compulsory	2	4	B2
0204105	INTRODUCTION TO TECHNICAL DRAWING	Compulsory	2	3	B2
0204106	BASIC COMPUTER TECHNOLOGIES AND APPLICATIONS	Compulsory	2	2	B2
0204107	ENGLISH I	Compulsory	4	2	A2
0204108	PRINCIPLES OF ATATURK AND TURKISH REV. HISTORY I	Compulsory	2	1	B2
Semester 2					
0204201	MATHEMATICS II	Compulsory	4	6	C
0204202	PHYSICS II	Compulsory	4	6	C
0204203	LINEAR ALGEBRA	Compulsory	3	6	B1
0204204	SEMICONDUCTORS	Compulsory	3	7	C
0204205	BASIC COMPUTER SCIENCES	Compulsory	3	2	B2
0204206	ENGLISH II	Compulsory	4	2	B1
0204207	PRINCIPLES OF ATATURK AND TURKISH REV. HISTORY II	Compulsory	2	1	B2
Semester 3					
0204301	ELECTROMAGNETIC FIELD THEORY	Compulsory	3	5	B2
0204302	CIRCUIT THEORY I	Compulsory	4	6	B2
0204303	CIRCUIT THEORY AND MEASUREMENT LAB. I	Compulsory	1	3	B2
0204304	COMPUTER PROGRAMMING	Compulsory	3	5	B2
0204305	DIFFERENTIAL EQUATIONS	Compulsory	4	4	B2
0204306	PROBABILITY THEORY	Compulsory	3	5	C
0204307	TURKISH LANGUAGE I	Compulsory	0	2	G
Semester 4					
0204401	ELECTROMAGNETIC WAVE THEORY	Compulsory	4	5	C
0204402	CIRCUIT THEORY II	Compulsory	4	6	B1
0204403	CIRCUIT THEORY AND MEASUREMENT LAB. II	Compulsory	1	3	B1
0204404	ELECTRONICS I	Compulsory	3	5	C
0204405	ELECTRONICS LAB. I	Compulsory	1	3	B1
0204406	NUMERICAL ANALYSIS	Compulsory	3	5	A2
0204407	TURKISH LANGUAGE II	Compulsory	0	1	G
0204450	PRACTICAL TRAINING	Compulsory	0	2	A1
Semester 5					
0204501	DIGITAL LOGIC DESIGN	Compulsory	3	5	A1
0204502	DIGITAL LOGIC DESIGN LAB.	Compulsory	1	3	C
0204503	ELECTRIC MACHINERY I	Compulsory	3	4	B1
0204504	ELECTRONICS II	Compulsory	3	5	C
0204505	ELECTRONICS LAB. II	Compulsory	1	3	C
0204506	SIGNALS AND SYSTEMS	Compulsory	4	4	B2
0204507	PROJECT I	Compulsory	1	2	A2
0204512	ELECTRIC PLANTS	Compulsory	3	4	B2
Semester 6					
0204601	DIGITAL ELECTRONICS	Compulsory	3	4	B2
0204602	DIGITAL ELECTRONICS LAB.	Compulsory	1	3	C
0204603	ELECTRIC MACHINERY II	Compulsory	3	4	B1
0204604	ELECTRIC MACHINERY LAB.	Compulsory	1	3	B2
0204605	SYSTEM MODELLING AND CONTROL I	Compulsory	3	4	B1
0204607	MICROPROCESSORS	Compulsory	3	5	C
0204608	PROJECT II	Compulsory	1	2	A2
0204611	MICROPROCESSORS LAB.	Compulsory	1	3	B2
0204650	SUMMER PRACTICE 2	Compulsory	0	2	A1
Semester 7					
0204703	TELECOMMUNICATIONS I	Compulsory	3	5	B2
0204701	SYSTEM MODELLING AND CONTROL II	Compulsory	4	5	B1
0204704	MICROWAVE THEORY	Compulsory	3	5	B2
0204705	FINAL YEAR PROJECT I	Compulsory	1	5	A2
0204706	HIGH VOLTAGE ENGINEERING	Elective	3	5	B2
0204707	INTERIOR INSTALLATION AND ILLUMINATION PROJECT	Elective	3	5	B1
Semester 8					
0201953	NATURAL DISASTER MANAGEMENT	Elective	2	5	A1
0204802	POWER ELECTRONICS	Compulsory	3	5	B2
0204803	TELECOMMUNICATIONS II	Compulsory	3	5	C
0204804	ANTENNA THEORY	Compulsory	3	5	B2
0204805	FINAL YEAR PROJECT II	Compulsory	1	5	A2
0204810	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	Elective	3	5	B1

Total Credits : 151 Local / 240 ECTS **CGPA*** :2.79 out of 4

* CGPA is calculated using the national credits.

Prof. Dr. Hakan KOCAMIS
Vice Rector
Erasmus Institutional Coordinator

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4.4. Grading Scheme and Grades

Grade: Grades are assigned in letters. The letter grades and the corresponding percentage equivalent are given below:

PERCENTAGE	COURSE GRADE
90-100	A1
85-89	A2
75-84	B1
65-74	B2
60-64	C
50-59 (Factor 1,0)	F1
41-49(Factor 0,5)	F2
0-40(Factor 0,0)	F3
Nonattendance	F4
Absent from exam	F5
Fail(for non-credit courses)	F6
Pass (for non-credit courses)	G

Each exam is graded on a 100-point scale. In order to be considered successful in a course,

a- the final exam grade must be at least 60

b- the sum of the 60% of the final exam grade and the 40% of the mid-term exam grade will make up the decisive grade, which must be at least 60. Having a fraction in computing the decisive grade, the result is rounded off to the nearest whole number. For those who are entitled to an additional exam, no mid-term grade is required, but a minimum 60 out of 100 (C) is. The table set by the Higher Education Council(YOK) is used to convert the grades from the 100 point scale to the 4-point scale

A student's academic success is calculated in the form of Cummulative Grade Point Average (CGPA) by the Registrar's Office, taking into account all the courses taken by the student from the beginnin of the university education to the end. In order to obtain CGPA, the final mark for each course is mutliplied by the course's national credits. The results are added and the sum is divided by the total number of national credits. The score obtained is the CGPA.

The criteria for degree classification are:

3,50 - 4,00 Onur Öğrencisi (Honor Student)

3,00 - 3,49 Pekiyi (Excellent)

2,60 - 2,99 İyi (Good)

2,20 - 2,59 Başarılı (Satisfactory)

4.5. Overall Classification of the Qualification

Genel Not Ortalaması (GNO)

: 2.79 , iyi

Cummulative Grade Point Average (CGPA)

: 2.79 , 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 Conferred

This degree enables the holder to exercise the profession

6. ADDITIONAL INFORMATION

6.1 Additional Information

: n/a

6.2 Further Information Sources

Electrical & Electronics Engineering

: <http://eem.kku.edu.tr/>

Faculty of Engineering Web Site

: <http://mf.kku.edu.tr>

University web site

: <http://www.kku.edu.tr>

University International Relations and EU Office web site

: <http://abofisi.kku.edu.tr>

The Council of Higher Education web site

: <http://www.yok.gov.tr>

The Turkish ENIC/NARIC web site

: <http://www.enic-naric.net/members.asp?country=Turkey>

The web site of the NQF (TYYÇ) for Higher Education

: <http://www.tyyc.yok.gov.tr>

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date

: 28.01.2013

7.2. Name and Signature

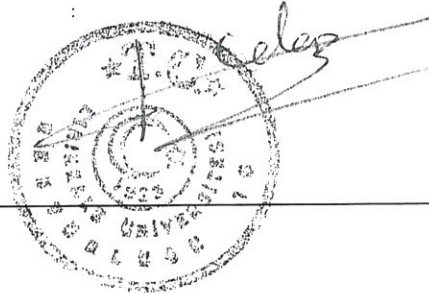
: Ferhat CELEN

7.3. Capacity

: Head of the Student Affairs

7.4. Official Stamp or Seal

:



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Vice Rector
Erasmus Insitutional Coordinator

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8 INFORMATION ON THE NATIONAL HIGHER EDUCATION 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.

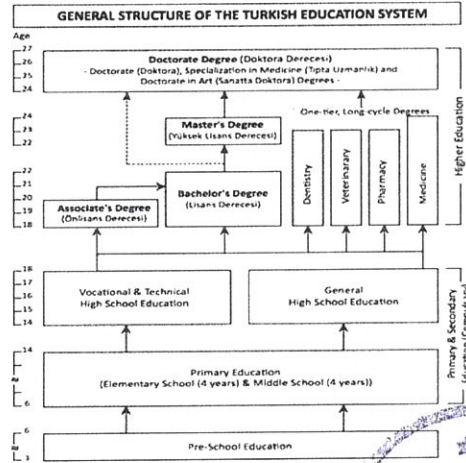
Since 2003, first cycle degree holders may apply directly to third cycle (doctorate) programmes if their performance at the first cycle degree level is exceptionally high and their national central Graduate Education Entrance Examination (ALES) score is also high and their application is approved. For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

GENERAL STRUCTURE OF THE TURKISH EDUCATION SYSTEM

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



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