



BİLKENT UNIVERSITY

*Upon the recommendation of the Faculty of Engineering
and by the authority of the Board of Trustees confers upon*

~~*Ömer Şişman*~~

the degree of

Bachelor of Science in Computer Engineering

with all the rights and privileges pertaining thereto.

*In Witness Whereof we have hereunto affixed our signatures
and the Seal of the University.*

Ankara, 27 May 2006

İbrahim Aşkan

President, Board of Trustees



Ali Özyaman

Rector

M. Öncü

Dean of the Faculty

Şişman
1/1



Bilkent University
06800 Bilkent Ankara, Turkey
Phone : +90-312-266-4132
Fax : +90-312-266-4787
www.bilkent.edu.tr



Bilkent University Diploma Supplement

In their 2003 Berlin meeting, the Ministers of Education of the member and candidate countries of the European Union set the objective that starting from 2005 students graduating from institutions of higher education should receive a Diploma Supplement.¹ This document is to be issued in a widely spoken European language and provided free of charge.

Bilkent University started issuing a Diploma Supplement in English along with each diploma in the 2005-2006 academic year. This document is provided free of charge with all associate, bachelors and masters level diplomas.

The full use of the Diploma Supplement by institutions and employers is encouraged as "it provides the advantage of improved transparency and flexibility of the higher education degree systems, for fostering employability and facilitating academic recognition for further studies."¹

The Diploma Supplement is a standardized document with eight sections. Its preamble states the following:

The 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 sections should be provided. Where information is not provided, an explanation should give the reason why.

The Diploma Supplement is produced according to a template that has been developed and tested by the European Commission, the European Council, and UNESCO/CEPES. This template forms the basis for the one adopted by the Higher Education Council of Turkey and is used by Bilkent University.

For more information on the Diploma Supplement please see the following web sites:

http://europa.eu.int/comm/education/policies/rec_qual/recognition/diploma_en.htm

http://www.yok.gov.tr/avrupabirli/Diplomateki_once.doc

1. Berlin Communiqué of Ministers responsible for Higher Education, September 2003 (Bologna Process)

1/2



Bilkent University
Diploma Supplement

Bilkent University

Bilkent University, 06800 Bilkent, Ankara, Turkey
 Phone : +90 312 266 4132
 Fax : +90 312 266 4787
 www.bilkent.edu.tr

Diploma No: 080619
 Diploma Date: 27.03.2006

The Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/EFMD. The purpose of the supplement is to provide students independent data to improve the international "recognizability" and the academic mobility of their qualifications, as well as to provide information on the national or international recognition of the diploma. The supplement is designed to provide a description of the nature, level, content, context and status of the studies. It should be filled in by the responsible authorities of the institution after recognition. Information of all ages, including studies in progress, is not provided, as equivalent studies should give the data in why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1. Family name(s) : ██████████
- 1.2. Given name(s) : ██████████
- 1.3. Date of birth : 24-04-1983
- 1.4. Student identification number : 20101983

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 :
 Bilkent Üniversitesi : Özel, Kurumla Kurulmuş, Devlet Tarafından Tanınan Üniversite
 Bilkent University : Foundation-supported Public Legal Entity, Non-profit, State-recognized
- 2.4. Name and status of institution administering studies :
 Same as 2.3.
- 2.5. Language(s) of instruction/examination :
 100% English

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1. Level of qualification :
 Bachelor's Degree (first cycle)
- 3.2. Official length of programme :
 4 years (excluding English Preparatory Schools), 2 semesters per year, 16 weeks per semester
- 3.3. Access requirements :
 High school diploma.
 Admission to higher education is based on a nation-wide Student Selection Examination (SSS).
 Certificate of English Proficiency (IELTS score of 5.5, FCE score of C or TOEFL score of 213 in computer based or equivalent in an internationally recognised English Proficiency Examination including the English Proficiency Examination given at the end of the Bilkent University English Preparatory School)

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1. Mode of study :

Full-time

4.2. Programme requirements :

Requirements
This degree is awarded to students who have successfully completed all courses in the curriculum, including two one-month summer training periods and have a minimum CGPA of 2.00/4.00.

Objectives

- To provide a strong background in the principles and practices of computer engineering, fostering intellectual maturity, emphasizing knowledge that is relevant to technological and business needs in a competitive global environment, and ready students for advanced studies.
- To prepare each student for a successful career in industry, academia, or government by teaching the discipline in a way that emphasizes creative and critical thinking, design and communication skills, collaboration, professional and ethical responsibility, and life-long learning.

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

Code	Course Name	Category	Bilkent ECTS Credits	Grade
Semester 1				
CS 101	Algorithms and Programming I	Required	4	A
ENG 101	English and Composition I	Required	3	A-
HIST 201	History of Turkish Republic I	Required	2	A
MBC 110	Introduction to Modern Biology	Required	3	A
TURK 102	Turkish II	Required	2	A
Semester 2				
GE 100	Orientation	Elective	1	S
GER 111	Basic German I	Elective	3	A-
HIST 202	History of Turkish Republic II	Required	2	A
MATH 101	Calculus I	Required	4	B
PHYS 101	General Physics I	Required	4	B
TURK 101	Turkish I	Required	4	B+
Semester 3				
CS 102	Algorithms and Programming II	Required	4	A
ENG 102	English and Composition II	Required	3	A-
GER 112	Basic German II	Elective	3	A
MATH 102	Calculus II	Required	3	B-
MATH 102	Discrete and Combinatorial Mathematics	Required	4	A
Semester 4				
CS 201	Fundamental Structures of Computer Science I	Required	4	A
CS 223	Digital Design	Required	3	A-
GER 113	Basic German III	Elective	3	A
HUM 111	Cultures Civilizations and Ideas I	Required	4	A
MATH 220	Linear Algebra	Required	4	A
Semester 5				
CS 202	Fundamental Structures of Computer Science II	Required	3	B-
CS 224	Computer Organization	Required	3	A-
HUM 112	Cultures Civilizations and Ideas II	Required	3	A
MATH 240	Differential Equations	Required	4	A-
PHYS 102	General Physics II	Required	3	A
Semester 6				
CS 239	Summer Training I	Required	4	A
CS 313	Programming Languages	Required	3	S
CS 319	Object-Oriented Software Engineering	Required	3	A
CS 351	Data Organization and Management	Required	4	A
GE 301	Science Technology and Society	Required	6	A
MATH 250	Introduction to Probability	Required	2	A
MUS 951	Music Theory and History	Required	3	A
Semester 7				
CS 342	Operating Systems	Required	3	A
CS 352	Database Management Systems	Required	4	A
EEE 212	Microprocessors	Required	6	A
EEE 391	Basics of Signals and Systems	Required	3	A

IF 572	European Union Integration, EU and OECD Economics	Elective	3	6	A
Semester 8					
CS 399	Summer Training II	Required	0	0	S
CS 413	Software Engineering Project Management	Elective	3	6	A
CS 421	Computer Networks	Elective	3	6	A
CS 473	Algorithms I	Required	3	6	A-
CS 491	Senior Design Project I	Required	3	6	A
ENG 401	Technical Report Writing and Presentation	Required	3	6	A
IE 400	Principles of Engineering Management	Required	2	2	A
Semester 9					
CS 431	Embedded Systems	Elective	4	6	A-
CS 452	Systems Analysis and Design	Elective	3	6	A
CS 469	Principles of User Interface Design	Elective	3	6	A
CS 476	Automata Theory and Formal Languages	Required	3	6	A-
CS 492	Senior Design Project II	Required	3	6	A
TOTAL CREDITS			147	231	A

4.4. Grading scheme and grades :

The official university grading system uses letter grades with pluses and minuses. Passing grades range from A to D-. F is failing. The quality-point equivalents of the grades are :

A	4.00	B+	3.30	B	2.70	C	2.00	D+	1.30	D-	0.70
A-	3.70	B	3.00	C+	2.30	C	1.70	D	1.00	F	0.00

Other grades having no quality-point equivalents are :

- S (Satisfactory) : Accorded to students who are successful in non-credit courses.
- U (Unsatisfactory) : Accorded to students who are unsuccessful in non-credit courses.
- P (In Progress) : Given at the end of the first semester of year-long courses.
- T (Transfer) : Reflects approved transferred courses from other universities.

The semester grade point average (GPA) is computed as the sum of the products (Bilkent credits x quality points) divided by the sum of the Bilkent credits of courses in that semester. The cumulative grade point average (CGPA) is an overall average computed as the sum of the products (Bilkent credits x quality points) of all the grades divided by the total number of Bilkent credits achieved.

4.5. Overall classification of the award :

Gene Not Ortalama:	3.92 / 4.00	Vizneki Sınıf
Cumulative Grade Point Average :	3.92 / 4.00	High Honour

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study :
Graduates may apply to graduate degree programmes.

5.2. Professional status conferred :
This degree enables the holder to exercise the profession.

6. ADDITIONAL INFORMATION

- 6.1. Additional information :
 The Registrar's Office e-mail: regis@bilkent.edu.tr
- 6.2. Further information sources :
 - University web site : www.bilkent.edu.tr
 - Bilkent University Catalogue for Undergraduate and Graduate Programmes (published annually and accessible from) : <http://catalog.bilkent.edu.tr>
 - The Council of Higher Education web site : www.yok.gov.tr
 - The Turkish ENIC-NARIC web site : <http://www.enic-naric.net/members.asp?country=Turkey>

