	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	1 / 7

## CHAPTER 1

### GENERAL PROVISIONS

#### Article 1

##### Subject of Regulation

The Regulation of the Second Cycle Study Program in Computer Engineering stipulates the functioning principles of this program.

#### Article 2

##### Legal Basis

The Regulation of the Second Cycle Study Program in Computer Engineering at “Epoka” Institution of Higher Education is based on the Law No. 9741, dated 21.05.2007, “On Higher Education in the Republic of Albania”, as amended, on the license issued by the Decision of Council of Ministers No. 281, dated 12.03.2008, “On the licensing of the Private Institution of Higher Education “Institution of Higher Education “Epoka”, on the Directive of the Ministry of Education and Science No. 14, dated 03.04.2008 “On the opening and organization of second cycle study programs in the public institutions of higher education”, on the Directive of the Ministry of Education and Science No. 15, dated 04.04.2008 “On the organization of studies in the public institutions of higher education”, on the Statute and Basic Regulation as well as on the Regulation of the Second Cycle Study Programs of this institution.

## CHAPTER 2

### PROGRAM CONTENT


#### Article 3

##### Specific formation aims of the program

Studies Program Cycle II in Computer Engineering is designed in order to meet the requirements for specialized computer engineers after the first cycle studies, also giving opportunities to qualified students in various academic disciplines to conduct studies to a level advanced and Computer Engineering and Software Engineering.

Studies Program Cycle II in Computer Engineering is designed in order to meet the requirements for specialized computer engineers after the first cycle studies, also giving opportunities to qualified students in various academic disciplines to conduct studies to a level advanced and Computer Engineering and Software Engineering. Students Studies Program Second Cycle Architecture can specialize in computer Algorithms and structure data, Artificial Intelligence, Neurale Networks, Data Mining, databases, computer networks and distributed systems, computer graphics, and Model Recognition Analysis of Figure, Numerical Calculation, Systems & Accessories, Calculation Parallel, Programming Languages, Software Engineering, natural language processing, Bio informatics, Neuro calculation and simulation.

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	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	2 / 7

#### Article 4

#### List of teaching disciplines and other formation activities

The list of teaching disciplines and other formation activities of the program is as below:

**T-** Theoretical hours

**P-** Practice hours

**C-** American system credits

**ECTS-** ECTS system credits


<b>First Term</b>				
Course Name	T	P	C	ECTS
Advanced Software Engineering	3	0	3	6
Principles Of Database Systems	3	0	3	6
E-Bussiness	3	0	3	6
Artificial Neural Networks	3	0	3	6
Computer Network Design	3	0	3	6
<b>Total</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>30</b>

<b>Second Term</b>				
Course Name	T	P	C	ECTS
Data Mining	3	0	3	6
Computer Graphics	3	0	3	6
Mobile and Wireless Networking	3	0	3	6
Term Project	0	2	0	12
<b>Total</b>	<b>9</b>	<b>2</b>	<b>9</b>	<b>30</b>

<b>Third Term</b>				
Course Name	T	P	C	ECTS
Search Methods	3	0	3	6
Computer Architecture	3	0	3	6
Principles Of Artificial Intelligence	3	0	3	6
Advanced Image Processing	3	0	3	6
Elective	3	0	3	6
<b>Total</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>30</b>

<b>Fourth Term</b>				
Course Name	T	P	C	ECTS
Thesis	0	0	0	30
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>

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	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	3 / 7

**Proposed Elective Course List of “Second Level Diploma Program in Computer Engineering”**

Course Name	T	P	C	ECTS
Computational Linguistics	3	0	3	6
Natural Language Processing	3	0	3	6
Operating System Design	3	0	3	6
Advanced Compiler Design	3	0	3	6
Advanced Network Programming	3	0	3	6
Special Topics in Computer Engineering	3	0	3	6

**Article 5**

**Credits and impeding requirements for each teaching activity or other formation activity**


First cycle study programs which enable admission into the Second Cycle Study Program in Computer Engineering:

a) Without complementing formation knowledge prior to admission into the program;

From the same institution of higher education	
Program or primary programs which are not required to supplement the knowledge training	1. Computer Engineering
From other institutions of higher education	
Program or primary programs which are not required to supplement the knowledge training	1. Software Engineering
	2. Informatics
	3. Economic Informatics
	4. Electronic Engineering
	5. Similar study Programs

b) With the complementing of formation knowledge prior to admission into the program;

From the same institution of higher education	Credits to be fulfilled	
Program or primary programs who are required to supplement the training knowledge, coupled with the number of credits to be fulfilled	Credits	
	Credits	
From other institutions of higher education	Credits to be fulfilled	
Program or primary programs who are required to	Credits	
Drafting Unit	Controlling Unit	Approving Unit
Senate	Academic Evaluation and Quality Improvement Board	Higher Board

	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	4 / 7
supplement the training knowledge, coupled with the number of credits to be fulfilled					Credits

## Article 6

### Curricula and specific formation aims of every formation activity

The curricula offered to the students during the program and the specific formation aims of every formation activity are in the attached text.

## Article 7

### Type of study, exams and other verifications of knowledge received by the students

The type of study of the Second Cycle Study Program in Computer Engineering is full-time.

The program consists of 13 courses, a term project and a thesis, which is completed at the final stage of the second cycle study program.

The teaching process is composed of lectures, projects and homeworks, practices, seminars and other similar works foreseen in the course program.

The evaluation from the academic point of view of lectures, projects and homeworks, practices, seminars and other similar works is done based on the measuring unit hour performed in auditorium. The value of credits of one course is composed of the total of all weekly theoretical hours and half of weekly hours used for application, laboratory, projects and other workshops.

At least 60 ECTS credits are completed during an academic year.

The success level of the student is evaluated based on the midterm exams; final exams; homeworks; presentations; projects.

With the proposal of the leader of the corresponding program and with the decision of the Scientific Committee, the student is given the right to enter an exam if he/she has not attended it during the year as a result of reasonable and documented reasons submitted within three days.


## Article 8

### Attendance

The student enrolled in the program is obliged to attend at least 80% of the teaching and research activities carried out in the auditoriums, of theory courses as well as teaching and research activities performed in the laboratories and of practice. Students trespassing this limit have to repeat the course with all corresponding obligations.

The fulfillment or not of the requirements concerning the attendance is presented to the Leader of the Program by the course instructor every month and is checked by the Head of the Department.

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	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	5 / 7

### **Article 9 Student Transfer**

Quotas for horizontal transfers into the Second Cycle Study Program in Computer Engineering are determined by the Scientific Committee and are approved by the Administrative Board of the Faculty, based on the principles established by this Board.

Students that have been transferred into this program are conferred a diploma subject to the condition that they should have completed at least a semester at “Epoka” Institution of Higher Education.

Students that have completed a semester at a second cycle study program can apply to the Student Affairs Office within the time period established in the academic calendar in order to horizontally transfer into the Second Cycle Study Program in Computer Engineering, in compliance with the principles established by the Senate.


The application is evaluated by the Scientific Committee of the program and the Administrative Board of the Faculty takes the respective decision.

### **Article 10 Relations between credits and various formation activities**

Relations between credits and various formation activities are as shown below:

<b>Type of activity and the defining symbol for it</b>	<b>Disciplinary fields or other training activities</b>	<b>Credits</b>	<b>Total credits</b>
Activities in the disciplines of general training (basic) (symbol: A)	1. Research Method	6	6 (5%)
Activities in characteristic disciplines of study program (Symbol: B)	1. Advanced Engineering and Programming 2. Fundamentals of Systems databases 3. E-Business 4. Artificial Networks 5. Data Mining 6. Computer Graphics 7. Links Mobile / Wireless 8. Design of computer networks 9. Basis of Artificial Intelligence	6 6 6 6 6 6 6 6 6	54 (45%)

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	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	6 / 7

Activities in similar disciplines and / or integrating related with characteristic disciplines (symbol: C)	1. Computer Architecture 2. Advanced Image Processing	6 6	12 (10%)
Discipline with student elections, among disciplines offered by the institution (symbol: D)	1. Language Processing 2. Natural Language Processing of 3. Exploitation Systems Design 4. Design of advanced compiler 5. Advanced network programming 6. Special Topics in Computer Engineering	6 6 6 6 6	6 (5%)
Knowledge of other training, as supplements in foreign languages, computer, presentation, experience or practice, etc.. (Symbol: E)	1. Preparatory seminar for thesis	12	12 (10%)
Diploma thesis (symbol: F)	Thesis	30	30 (25%)
<b>Total</b>			<b>120</b>

## Article 11

### Recognition of credits for previously acquired knowledge

In accordance with the legislation in force, the Scientific Committee may recognize as credits of university formations in the Second Cycle Study Program in Computer Engineering up to 40 credits from the formation activities gained previously by the student, which are in accordance with the specific aims of the program.

## Article 12

### Number of Students

The minimum number of students in the Second Cycle Study Program in Computer Engineering is five and maximum 50.

## CHAPTER 3


### FINAL PROVISIONS

## Article 13

### Execution

This regulation enters into force on the date of its approval by the Higher Board of “Epoka” Institution of Higher Education.

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	<b>REGULATION ON SECOND CYCLE STUDY PROGRAM IN COMPUTER ENGINEERING</b>				
	Document Code	Entry into force	Amendment No.	Amendment Date	Page/Total Page
	EU-REG-018-EN	15.12.2008	-	-	7 / 7

The enforcement of this regulation is ensured by the Rector.

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