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CHAPTER 1

GENERAL PROVISIONS

Article 1

Subject of Regulation

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

Article 2

Legal Basis

The Regulation of the Second Cycle Study Program in Civil 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

The aim of this program is to continuously equip the students with wider and deeper knowledge, skills and approaches, which make possible a more effective function in the challenging environment of the forthcoming decades of the civil engineering. The students of the Second Cycle Study Program in Civil Engineering are expected to be the leading scholars and specialists in this field.

The graduates of this program will be able to be employed in consulting companies, state institutions, private entrepreneurs, municipalities and other firms such as hydro and telephony companies. The specified employment areas for the graduates of “Epoka” Institution of Higher Education are engineering fields, topographical surveys of existing conditions, locations and structural analysis studies, urban and transportation planning, design of steel

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Senate	Academic Evaluation and Quality Improvement Board	Higher Board

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structures and reinforced concrete structures, testing of soil and other materials like, concrete, asphalt, etc. as well as construction supervision.

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


First term					
	Course Name	T	P	C	ECTS
	Foundation Engineering 2	3	0	3	4
	Fundamentals of Steel Design	2	2	3	7
	Introduction to Safety Engineering	3	0	3	5
	Reinforced Concrete Structures	3	0	3	4
	Introduction to Earthquake Resistant Design	3	0	3	4
	Construction Site Techniques	3	0	3	4
	Construction Planning	3	0	3	4
Total		20	2	21	32

Second Term					
	Course Name	T	P	C	ECTS
	Advanced Structural Analysis	3	0	3	4
	Legal Aspects In Construction Works	3	0	3	4
	Supervised Independent Study and Research (Research Methods)	3	0	3	6
	Term Project	0	0	0	10
	Special Topics in Civil Engineering	3	0	3	7,5
Total		12	0	12	31,5

Third term (Profile: Structural Engineering)

	Course Name	T	P	C	ECTS
	Technical Elective	3	0	3	7,5
	Nonlinear Problems in Reinforced Concrete	3	0	3	7,5
	Earthquake Resistant Design of Structures	3	0	3	7,5
	Structural dynamics	3	0	3	7,5

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Total	12	0	12	30
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Third term (Profile: Construction Management)

Course Name	T	P	C	ECTS
Technical Elective	3	0	3	7.5
Methods of Construction	3	0	3	7,5
Special Topics In Strategic Management of Construction Companies	3	0	3	7,5
Special Topics In Risk Management in Construction	3	0	3	7,5
Total	12	0	12	30


Fourth term

Course Name	T	P	C	ECTS
Thesis	0	0	0	30
Total	0	0	0	30

Elective Courses

Course Name	T	P	C	ECTS
Special Topics in the Management of Construction projects	3	0	3	7.5
Special Topics in Data Collection, Analysis and Modelling in Construction Industry	3	0	3	7.5
Modelling in Hydrology	3	0	3	7.5
Fundamentals of River Engineering	3	0	3	7.5
Design of Hydraulic Structures	3	0	3	7.5
Sediment Transport	3	0	3	7.5
Computational Fluid Dynamics	3	0	3	7.5
Water Resources Engineering	3	0	3	7.5
Soil Dynamics	3	0	3	7.5
Geotechnics in Practice	3	0	3	7.5
Soil Improvement Techniques	3	0	3	7.5
Geotechnical Investigations	3	0	3	7.5
Geotechnical Earthquake Engineering	3	0	3	7.5
Advanced Materials Science	3	0	3	7.5
Admixtures for Concrete	3	0	3	7.5
Durability of Building Materials	3	0	3	7.5
Advanced Reinforced Concrete	3	0	3	7.5
Materials Testing and Measurements	3	0	3	7.5
Advanced Mechanics of Materials	3	0	3	7.5
Elasticity	3	0	3	7.5

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	Structural Design	3	0	3	7.5
	Prestressed and Prefabricated Systems	3	0	3	7.5
	Matrix Methods of Structural Analysis	3	0	3	7.5
	Advanced Reinforced Concrete	3	0	3	7.5
	Advanced Highway Design	3	0	3	7.5
	Transportation Modeling and Planning	3	0	3	7.5
	Advanced Traffic Engineering	3	0	3	7.5

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 Civil Engineering:


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

From the same institution of higher education	
First cycle program or programs which do not require the complementing of formation knowledge	1. Civil Engineering
From other institutions of higher education	
First cycle program or programs which do not require the complementing of formation knowledge	1. Civil Engineering

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

From the same institution of higher education		Courses	Credits to be complemented
First cycle program or programs which require the complementing of formation knowledge, accompanied by the number of credits to be complemented	1. Architecture	1. Surveying	3 credits / 5 ECTS
		2. Construction Engineering and Management	3 credits / 6 ECTS
		3. Introduction to Geology and Soil Mechanics	3 credits / 7 ECTS
	Total	3 courses	9 credits / 18 ECTS

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From other institutions of higher education		Courses	Credits to be complemented
First cycle program or programs which require the complementing of formation knowledge, accompanied by the number of credits to be complemented	1. Architecture	1. Surveying	3 credits / 5 ECTS
		2. Construction Engineering and Management	3 credits / 6 ECTS
		3. Introduction to Geology and Soil Mechanics	3 credits / 7 ECTS
	Total	3 courses	9 credits / 18 ECTS
	2. Environmental Engineering	1. Surveying	3 credits / 5 ECTS
		2. Construction Engineering and Management	3 credits / 6 ECTS
		3. Introduction to Geology and Soil Mechanics	3 credits / 7 ECTS
Total	3 courses	9 credits / 18 ECTS	

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 Civil Engineering is full-time.

The program consists of 15 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

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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.

Article 9 Student Transfer

Quotas for horizontal transfers into the Second Cycle Study Program in Civil 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 Civil 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:

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Type of activity and the respective defining symbol	Disciplines` areas and other formation activities	Credits	Total credits
Activities in disciplines of general (basic) formation (Symbol: A)	1. Research Methods	6	10
	2. Legal Aspects In Construction Works	4	
Activities in characterizing disciplines of the study program, common for both study profiles. (Symbol: B) Profile: Structural Engineering Profile: Construction Management	1. Fundamentals of Steel Design	7	34.5
	2. Reinforced Concrete Structures	4	
	3. Introduction to Earthquake Resistant Design	4	
	4. Construction Site Techniques	4	
	5. Construction Planning	4	
	6. Advanced Structural Analysis	4	
	7. Special Topics in Civil Engineering	7.5	
Activities in characterizing disciplines of the study program, different for both study profiles. (Symbol: B) Profile: Structural Engineering	8. Nonlinear Problems in Reinforced Concrete	7.5	22.5
	9. Earthquake Resistant Design of Structures	7.5	
	10. Structural dynamics	7.5	
Activities in characterizing disciplines of the study program, different for both study profiles. (Symbol: B) Profile: Construction Management	8. Methods of Construction	7.5	22.5
	9. Special Topics In Strategic Management of Construction Companies	7.5	
	10. Special Topics In Risk Management in Construction	7.5	
Activities in similar or/and integrating disciplines, related to characterizing disciplines (Symbol: C)	1. Foundation Engineering 2	4	9
	2. Introduction to Safety Engineering	5	
Elective disciplines, offered by the institution (Symbol: D)	1. Special Topics in the Management of Construction projects	7.5	7.5
	2. Special Topics in Data Collection, Analysis and Modelling in Construction Industry	7.5	
	3. Modelling in Hydrology	7.5	
	4. Fundamentals of River Engineering	7.5	
	5. Design of Hydraulic Structures	7.5	
	6. Sediment Transport	7.5	
	7. Computational Fluid Dynamics	7.5	

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	8. Water Resources Engineering	7.5	
	9. Soil Dynamics	7.5	
	10. Geotechnics in Practice	7.5	
	11. Soil Improvement Techniques	7.5	
	12. Geotechnical Investigations	7.5	
	13. Geotechnical Earthquake Engineering	7.5	
	14. Advanced Materials Science	7.5	
	15. Admixtures for Concrete	7.5	
	16. Durability of Building Materials	7.5	
	17. Advanced Reinforced Concrete	7.5	
	18. Materials Testing and Measurements	7.5	
	19. Advanced Mechanics of Materials	7.5	
	20. Elasticity	7.5	
	21. Structural Design	7.5	
	22. Prestressed and Prefabricated Systems	7.5	
	23. Matrix Methods of Structural Analysis	7.5	
	24. AAdvanced Reinforced Concrete	7.5	
	25. Advanced Highway Design	7.5	
	26. Transportation Modeling and Planning	7.5	
	27. Advanced Traffic Engineering	7.5	
Other formation knowledge, such as foreign languages, computer, presentations, internship or practices etc. (Symbol: E)	1. Term project	10	10
Thesis (Symbol: F)	1. Thesis	30	30
Total			123.5

Article 11

Recognition of credits for previously acquired knowledge

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In accordance with the legislation in force, the Scientific Committee may recognize as credits of university formations in the Second Cycle Study Program in Civil 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 Civil 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.

The enforcement of this regulation is ensured by the Rector.

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