

CIVIL ENGINEERING ACTIVITY REPORT 2016-2017

For submission to the Epoka University, Faculty of Architecture and Engineering

Department of Civil Engineering

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INTRODUCTORY KNOWLEDGE, MISSION AND GOALS

1. GENERAL

Civil Engineering covers a wide range of engineering applications from dams, tunnels, pipelines and highways to buildings. Civil Engineering is distinguished as being one of the earliest engineering disciplines. Throughout the ages it has provided creative and feasible solutions to many of the basic human needs and problems, and it still continues to take pride in being a fundamental building block of civilization

2. MISSION

Understanding of the fundamentals of science and engineering so that they can develop solutions to Civil Engineering problems and enhance their computing, communication, and research skills. It is aimed to especially emphasize teamwork, independent and innovative thinking and leadership qualities. In particular, the Civil Engineering Program aims to:

- Train the students to have theoretical background in basic sciences and engineering and to be equipped with necessary technical skills,
- Develop students' competency in reading, writing and oral communication,
- Provide practical experience which will enable students to utilize and enhance their engineering knowledge,
- Promote students' self-discipline and self-assurance and the ability to learn on their own,
- Encourage team work, collaboration and development of interpersonal skills,
- Motivate the students towards contributing to the progress of science and technology,
- Teach the importance of ethical behavior in social and professional life,
- Produce graduates for the engineering and the business communities who are observant, inquisitive and open to new technologies for developing better solutions,

 Produce graduates for the engineering and business communities with integrity, determination, judgment, motivation, ability and education to assume a leadership role to meet the demanding challenges of the society.

3. PROGRAM

The requirements for a Bachelor of Science degree in Civil Engineering include the completion of minimum of 180 credits of formal course work and 60 days of approved practical training (30 days are office and 30 days are onsite training).

Courses in the first two years of the undergraduate program are dedicated to the study of basic sciences, to develop mathematical skill and physical principles, which provide the student with engineering fundamentals. The study of mechanics and materials which is basic to civil engineering begins in the second year. Engineering science courses in the second and third year develop the student's ability to apply mathematics and basic scientific principles to the solution of practical engineering problems. The third year involve the study and application of the principles of geotechnical engineering (behavior of soils, design of foundations), structural engineering (analysis and design of reinforced concrete and steel structures), hydraulics engineering (flow of water in pipes, open channels, water resources), and the general systems approach to engineering problems. The students are also exposed to an introduction to construction management and economics which are essential to every practicing engineer. At the end of the third year, the student completes at least one course in each subarea of civil engineering. Courses and assignments that develop oral and written communication skills are distributed throughout the curricula.

Each class has a dedicated faculty advisor to assist the student in their study and beyond.

Graduating students are required to take the Comprehensive Exam that is a fundamentals of Engineering exam, a zero credit course, administered by the Department. Student's plans can include undergraduate research and international opportunities.

The Master of Science in Civil Engineering (M Sc) is a two years program intended for students who currently are, or intend to become, practicing civil engineers, and thus focuses on the

application of these principles and practices to real-world problems encountered by professional civil engineers.

The Master of Science in Civil Engineering offers to the students the possibility of specializing into four profiles such as: Structural Engineering, Construction Management, Construction Materials and Water Resources Engineering. It combines a core curriculum with the opportunity to take elective courses tailored to a student's particular areas of interest. These courses typically relate to the student's thesis topic and are selected by the student in consultation with the department advisor. To earn the MSc degree, students must complete in total 120 ECTS credits from their coursework and a Master thesis.

The Professional Master of CE Program offers a year of advanced study for graduate students with previous professional degrees in civil engineering. The Professional Master's degree program is an interdisciplinary program of study.

The Professional Master degree combines a core curriculum with the opportunity to take elective courses tailored to a student's particular areas of interest. These courses typically relate to the student's field of interest and are selected by the student in consultation with department advisor. To earn the Professional Master degree, students must complete one year in residence, 60 ECTS credits of coursework, the core curriculum.

4. JOB OPPORTUNITIES

Graduates of the department qualify for a responsible position in the civil engineering industry in analysis, design and construction management. Prospective employers include, but are not limited to, construction contractors, consulting firms, industrial firms and various government agencies.

5. EDUCATIONAL AIMS AND OBJECTIVES

a) Aim

To produce graduates who have the potential to become future leaders of this profession

b) Objectives

The following program educational objectives are aimed with the goal of preparing students to enter a modern civil engineering work force and to be successful in their career and profession. The educational objectives are consistent with the university and department missions as well. The objectives are:

- 1. To ensure that graduates will have a mastery of fundamental knowledge, problem solving skills, engineering experimental abilities, and design capabilities necessary for entering civil engineering career and/or graduate school,
- 2. To inculcate a deep understanding of engineering principles.
- To produce graduates that have the knowledge and skills necessary for identifying and assessing design alternatives and the related social, economic, environmental, and public safety impacts,
- 4. To produce graduates who have verbal and written communication skills necessary for successful professional practice,
- 5. To prepare graduates to function effectively on teams,
- 6. To prepare graduates to deal with ethical and professional issues, taking into account the broader societal implications of civil engineering,
- 7. To prepare graduates for professional leadership roles and lifelong learning.
- 8. To provide the extra dimension of international study to become a selected minority of students.
- 9. To consider the product of Master Programs expected from the Construction Industry and the Academy.
- 10. To be enhanced and make the graduate students more competitive in the job market as well as would serve as a good tool in pursuing their future career goals.

6. PROGRAM OUTCOMES

CE Outcomes (Program Competencies) according to ABET Criterion 3

"Civil Engineering program must demonstrate that their graduates have: Program Competencies

No	Program Learning Outcomes
1	an ability to apply knowledge of mathematics, science, and engineering

2	an ability to design and conduct experiments, as well as to analyze and interpret data
3	an ability to design a system, component, or process to meet desired needs
4	an ability to function on multidisciplinary teams
5	an ability to identify, formulate, and solve engineering problems
6	an understanding of professional and ethical responsibility
7	an ability to communicate effectively
8	the broad education necessary to understand the impact of engineering solutions in a global and societal context
9	a recognition of the need for, and an ability to engage in life-long learning
10	a knowledge of contemporary issues
11	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
12	Skills in project management and recognition of international standards and methodologies (optional)

7. CURRICULUM OF ALL STUDY PROGRAMS OF CIVIL ENGINEERING DEPARTMENT

All of the course syllabuses were revised and updated according to Albanian Government regulations and ABET criterion. Curricula of Civil Engineering Department are given below:

BACHELOR STUDY PROGRAM

			Faculty of	Architect	ure and	l Engi	neering								
	Department of Civil Engineering														
	3 (Three) Years Bachelor Study Program														
	FIRST YEAR														
	First Semester														
COURSES Course Compulsory Weekly Course Distribution Epok Semestral Lecture and studying hou Type /Elective a						hours	EC TS								
Code	Course Name			Theor y	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La b.	Site W.	Oth er	Tot	al
MTH 101	Calculus I	A	Compulsory	3	2	0	5	4	48	32	0	70	25	175	7
PHY 101	General Physics I	A	Compulsory	3	2	0	5	4	48	32	0	70	15	165	7
CHM 101	General Chemistry	A	Compulsory	4	0	0	4	4	64	0	0	42	30	136	6
CE 101	Introduction to Civil Engineering	В	Compulsory	2	0	0	2	2	32	0	0	35	25	92	4
ENG 101	Development of Reading and Writing Skills in English I	Е	Compulsory	4	0	0	4	4	64	0	0	56	30	150	6

Semestral	Total			16	4	0	20	18	25	64	0	273	125	718	30
Semestrai	Total			10	4	U	20	10	6	04	U	213	123	/16	30
	FIRST YEAR				1	1			1	I	1	1			1
	Second Semester														
COURSE		Course Type	Compulsory /Elective	Weekly	y Cours	e Dist	ribution	Epok a	S	emestra	l Cou	rse and st	udying l	nours	EC TS
Code	Course Name	Турс	/Elective	Theor	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La b.	Site W.	Oth er	Tot	
MTH 102	Calculus II	A	Compulsory	3	2	0	5	4	48	32	0	84	12	176	7
CE 100	Civil Engineering Drawing	В	Compulsory	3	2	0	5	4	48	32	0	50	35	165	7
ENG 102	Development of Reading and Writing Skills in English II	Е	Compulsory	4	0	0	4	4	64	0	0	56	10	130	5
CEN 102	Introduction to Computers and C Programming	С	Compulsory	2	2	0	4	3	32	32	0	56	30	150	6
CE 102	Geology for Civil Engineers	В	Compulsory	3	0	0	3	3	48	0	0	40	30	118	5
Semestral	Total			15	6	0	21	18	24 0	96	0	286	117	117 739	
	SECOND YEAR														
	Third Semester														
COURSE		Course Type	Compulsory /Elective				ribution	Epok a				are and st			EC TS
Code	Course Name			Theor y	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La b.	Site W.	Oth er	Tot	al
MTH 201	Differential Equations	A	Compulsory	3	0	0	3	3	48	0	0	70	8	126	5
CE 231	Engineering Mechanics I	В	Compulsory	4	0	0	4	4	64	0	0	70	12	146	6
CE 211	Engineering Economics	В	Compulsory	4	0	0	4	4	64	0	0	70	25	159	6
MTH 205	Probability and Statistics for Engineers	С	Compulsory	3	0	0	3	3	48	0	0	45	25	118	5
CE 221	Materials Science	В	Compulsory	3	0	0	3	3	48	0	0	35	20	103	4
	Non-technical elective	Е	Elective	3	0	0	3	3	48	0	0	35	20	103	4
Semestral	Total			20	0	0	20	20	32 0	0	0	325	110	755	30
	SECOND YEAR							I							Ī
	Fourth Semester														
COURSE	S	Course Type	Compulsory /Elective	Weekly	y Cours	e Dist	ribution	Epok a	S	emestra	l Cou	rse and st	udying l	nours	EC TS
Code	Course Name			Theor	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La b.	Site W.	Oth er	Tot	al
MTH 202	Mathematics for Engineers	С	Compulsory	3	0	0	3	4	48	0	0	35	6	89	4
CE 232	Engineering Mechanics II	В	Compulsory	3	0	0	3	3	48	0	0	45	25	118	5
CE 234	Mechanics of Materials	В	Compulsory	3	2	0	5	4	48	32	0	55	35	170	7
CE 222	Introduction to Construction Materials	В	Compulsory	3	2	0	5	4	48	32	0	65	55	200	8
CE 281	Surveying	В	Compulsory	2	2	0	4	3	32	32	0	64	25	153	6
Semestral	Total			14	6	0	20	18	22 4	96	0	264	146	730	30
THIRD YEAR									1						Т
Fifth Semester				+				-			-				+
COURSE		Course Type	Compulsory /Elective	Weekly	y Cours	e Dist	ribution	Epok a	S	emestra	l Lecti	are and st	udying	hours	EC TS
Code	Course Name	1,500	Biccurc	Theor	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La Site Oth To b. W. er		Tot		
CE 300	Summer Practise I	Е	Compulsory	0	0	0	0	0	0	0	0	70	30	100	4
CE 282	Principles of Transportation and Traffic Engineering	В	Compulsory	3	2	0	5	3	48	32	0	60	10	150	6
CE 391	Structural Mechanics	В	Compulsory	4	0	0	4	4	64	0	0	40	25	129	5

CE 392	Reinforced Concrete	В	Compulsory	4	0	0	4	3	64	0	0	60	25	149	6
	Fundamentals														
CE 361	Soil Mechanics	В	Compulsory	4	0	0	4	4	64	0	0	45	25	134	5
CE 341	Fluid Mechanics	В	Compulsory	3	0	0	3	3	48	0	0	35	20	103	4
Semestral	Total			18	2	0	20	17	28	32	0	310	135	765	30
									8						

	THIRD YEAR														
	Sixth Semester														
COURSE	ES	Course Type	Compulsory /Elective	Weekly	y Cours	e Dist	ribution	Epok a	S	emestra	l Cour	rse and str	udying l	nours	EC TS
Code	Course Name			Theor y	Pra ct.	La b.	Total	Credi ts	Le ct.	Pra ct.	La b.	Site W.	Oth Tota		al
CE 312	Construction Engineering and Management	В	Compulsory	4	0	0	4	4	64	0	0	55	30	149	6
CE 362	Foundation Engineering	В	Compulsory	2	2	0	4	3	32	32	0	60	30	154	6
CE 342	Hydromechanics	В	Compulsory	4	0	0	4	4	64	0	0	55	30	149	6
CE 394	Structural Analysis	В	Compulsory	4	0	0	4	3	64	0	0	70	35	169	6
CE 399	Graduation Project	F	Compulsory	1	4	0	5	0	16	64	0	10	65	155	6
CE 355 Final Comprehensive Exam				1	4	0	5	0	16	64	0	10	65	155	
Semestral Total				15	6	0	21	14	24 0	96	0	250	190	776	30

MASTER OF SCIENCE STUDY PROGRAM

First Year					
	First Semester				
Course Code	Course Name	T	P	C	ECTS
CE 489	Fundamentals of Steel Design	2	2	3	7
CE 401	Supervised Group Study and Research	1	4	3	6
CExxx	Technical Elective	3	0	3	6
CExxx	Technical Elective	3	0	0	6
CExxx	Technical Elective	3	0	3	6
Semestral Total		12	6	12	31

First Year					
	Second Semester				
Course Code	Course Name	T	P	С	ECTS
CE 402	Supervised Independent Study and Research	1	4	3	9
CE 490	Special Topics In Civil Engineering	3	0	3	9
CExxx	Technical Elective	3	0	3	6
CExxx	Technical Elective	3	0	3	6
Semestral Total		10	4	12	30

Second Year					
	Third Semester				
Course Code	Course Name	T	P	C	ECTS

CE 560	Supervised Independent Study and Research	0	0	0	10
CE 591	Special Topics In Civil Engineering	3	0	3	14
CExxx	Technical Elective	3	0	3	6
Semestral Total		6	0	6	30

Second Year					
	Fourth Semester				
Course Code	Course Name	T	P	С	ECTS
CE 500	Master Thesis	0	0	0	30
Semestral Total		0	0	0	30

PROFESSIONAL MASTER STUDY PROGRAM

	FIRST YEAR First Semester														
COURS	COURSES Course Compulsory Weekly Course Distribution Epoka Semestral Lecture and studying hours EC							ECTS							
Code	Course Name	Туре	/Elective	Theory	Pract.	Lab.	Total	Credits	Lect.	Pract.	Lab.	Site W.	Other	Total	
CE 400	Eng. Application	E	Compulsory	0	0	0	0	0	0	0	0	70	30	100	10
CE 489	Fundamentals of Steel Design	В	Compulsory	2	2	0	4	3	32	32	0	70	45	179	8
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	56	3	107	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	38	20	106	6
Semestr	al Total			8	2	0	10	9	128	32	0	234	98	492	30

	FIRST YEAR														
	Second Semester														
COURS	SES	Course	Compulsory	Weel	dy Course	Distribut	ion	Epoka		Semestra	al Course	and stu	dying hour	S	ECTS
Code	Course Name	Type	/Elective	Theory	Pract.	Lab.	Total	Credits	Lect.	Pract.	Lab.	Site W.	Other	Total	
CE 402	Supervised Independent Study and Research	С	Compulsory	1	4	0	5	3	16	64	0	100	65	245	12
CE xxx	Technical Elective	В	Elective	3	0	0	3	3	48	0	0	50	3	101	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	50	3	101	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	50	3	101	6
Semestr	al Total		·	16	4	0	14	18	160	64	0	250	74	548	30

PHD STUDY PROGRAM

Year I - First Semes	Year I - First Semester		P	C	ECTS
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
Total:		12	0	12	30

Year I - Second Sem	Year I - Second Semester		P	С	ECTS
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
CE 8xx	ELECTIVE COURSE	3	0	3	7.5
Total:		12	0	12	30

Year II+III		Т	P	С	ECTS
CE 800	PhD Thesis	0	0	0	120
Total:		0	0	0	120

8. NUMBER OF ACADEMIC STAFF AND STUDENTS

The total numbers of academic staff in Civil Engineering Department is 12, from which 7 are part of the full time academic staff, and 5 are part of the part time academic staff.

Table 1- Detailed list of staff members of Civil Engineering Department

No	Title	Name	Surname	Employment
1	Assoc. Prof. Dr.	Hűseyin	Bilgin	Full time
2	Assoc. Prof. Dr.	Miriam	Ndini	Full time
3	Assoc. Prof. Dr.	Ylber	Muçeku	Part time
4	Assoc. Prof. Dr.	Elfrida	Shehu	Part time
5	Assoc. Prof. Dr.	Hektor	Cullufi	Part time
7	Assist. Prof. Dr.	Erion	Luga	Full time
8	Dr.	Enea	Mustafaraj	Full time
9	M. Sc	Julinda	Keçi	Full time
10	M. Sc	Armando	Demaj	Full time
11	M. Sc	Edison	Barhani	Part time
12	Research Assistant	Marsed	Leti	Full time

Table 2- Number of students at the undergraduate level (as of June, 2016)

FACULTY	DEPARTMENT	STUDENTS
Faculty of Architecture and Engineering	Civil Engineering	59

Table 3- Number of students registered at the graduate level (as of June, 2016)

FACULTY	PROGRAM	STUDENTS
	Professional Master	7
Faculty of Architecture and	Master of Science	20
Engineering	PhD	1

9. NUMBER OF COURSES (STUDY PROGRAMS)

The programs offered by Epoka University:

<u>First cycle study programs</u> in the form of full-time studies at the end of which the First Level Degree (B. Sc) is issued:

• Civil Engineering (3 academic years);

<u>Second cycle study programs</u>, in the form of full-time studies at the end of which the Second Level Degree (M. Sc) is issued:

- M. Sc in Civil Engineering: Profile: Structural Engineering (2 academic years)
 {Master of Science in Civil Engineering: Structural Engineering Profile}
- M. Sc in Civil Engineering: Profile: Construction Management (2 academic years)
 {Master of Science in Civil Engineering: Constructions Management Profile}
- M. Sc in Civil Engineering: Profile: Water Resources (2 academic years)
 {Master of Science in Civil Engineering: Water Resources Profile}
- M. Sc in Civil Engineering: Profile: Construction Materials (2 academic years)

 {Master of Science in Civil Engineering: Constructions Materials Profile}

<u>Second cycle study programs</u>, in the form of full-time studies at the end of which the Second Level Degree (PM) is issued:

• PM in Civil Engineering (1 academic year)

<u>Third cycle study programs</u>, in the form of full-time and part time studies at the end of which the Doctor of Philosophy Degree (PhD) is issued:

• Doctor of Philosophy in Civil Engineering

10. DEPARTMENT ACTIVITIES

One of the objectives of Civil Engineering Department is to contribute not only to its students' achievements and academic research but also to the broader local society by organizing seminars and open forums.

10.1 One day trip to Berat

As one of the oldest clubs at Epoka University, Future Engineers Club is aiming to provide a forum for all future engineers and others whose common interest is in different engineering discipline. It is in our mission to help students to become valuable individuals to contribute for the development of Albania.



Fig.1: Department lecturers and students

On 25 March 2017, Future Engineers Club organized a trip to beautiful city of Berat. The event was attended from 1st, 2nd and 3rd year undergraduate students as well as from the professors of Civil Engineering department of Epoka University.

The excursion consisted of many activities including:

- 1. The visiting of Berat Castle that also included the exploration of many structures and buildings that were constructed during the XII-XIV century (churches, arches etc). While visiting the castle we also admired the beauty of the "Një Mbi Një Dritare" that consists of several houses that are built one after another.
- 2. A quick tour of city that gave us also the opportunity to see the "Gorica Bridge", an old bridge built by stone and composed of many arches that was retrofitted in recent years.
- 3. After all, we had the chance to enjoy the Lunch at a traditional restaurant where the students and the professors had the opportunity to know each other better while talking about different topics.

10.2 Open Forum with special guest Mr. Ervin Mici

On April 27, 2017, Future Engineers Club in collaboration with Civil Engineering Department organized an Open Forum with special guest: Mr. Ervin Mici, the representative of Knauf Albania. The topic of the forum was "The use of Thermo-Hydro Isolation systems in construction industry". Moreover, Mr. Ervin extended his presentation on acoustic systems used in today's constructions. Our guest, described in details the importance and the impact of thermo-hydro isolation systems and how they can be used in buildings effectively.

During the forum students had the opportunity to gather a lot of information and get used to the basic concepts behind thermo-isolation and sound-isolation systems. Firstly, our guest Ervin Mici explained why the isolation of buildings should never be underestimated and should always be considered in the early phases of the construction.

Mr. Mici then demonstrated to students some of the basic isolation systems that are commonly used in construction industry and where should they be used depending on the environment. At the same time students were able to learn some of the technologies that Knauf uses here in Albania in order to assure thermal and sound isolation.

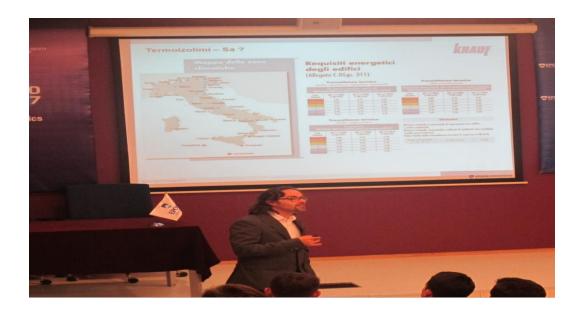


Fig.2: Mr. Mici during his speech.

All in all, the Open Forum was very instructive and fascinating especially for Civil Engineering and Architecture students.

10.3 Workshop- Needle Tower.

On 30 and 31 March 2017, the Future Engineers Club, supported by the Department of Civil Engineering at Epoka University, organized a workshop that was dedicated to the construction of the "Needle Tower".

"The Needle Tower" is a tensegrity model that was firstly created in 1968 by the famous architect Keneth Snelson, who is known for this kind of structures. Tensegrity is special type of design principle, first introduced in 1920, that contains sets of discontinuous compression elements that are balanced by tensile forces, thereby creating an internal stability that make the structure stand still. Even though the beauty of the structure makes it look more suitable for an architectural project, our club decided to take on this project for the different engineering challenges that it offers in combining the right amount of compression and tensile forces. In the construction of the model we decided to use different aluminum cylinders as compression elements because of the lightweight of aluminum.



Fig. 3: Department lecturer and students

On the other side we decided to use stainless plastic string as tensile members. In the end we planned that the project will be around 5 meters in height and will contain 7 stories.

We worked for two consecutive days and faced different adversities while trying to raise the structure but with tenacity and team work we were able to overcome every difficulty and finish the project as planned.

10.4 Open Lecture with special guest Mr. Arian Jovani

Arjan Jovani graduated from Polytechnic University of Tirana, in Hydrotechnic profile in 1986.

He has started his career working in the construction of Banja HPP until 1993 and further at the National Institute for the design of construction works and water supply systems.

During his career he worked and contributed as an expert in the design and supervision of water infrastructure systems, in urban and rural areas. He has given his experience and at the same time has been very active in the area of dams and small HPP project control.

In 2006 he was transferred near the "Enti Rregullator i Ujit" as a Member of the National Board as a decision-maker for licensing and establishment of standards and tariffs for the drinking water

supply, the treatment of wastewater and supervises the Performance Monitoring of water supply enterprises in Albania.

Today Mr. Jovani holds the position of Director of Dam Safety at Albanian Power Corporation also known as (KESH)/



Fig. 4: Mr. Jovani during his speech.

Besides his rich experiences as engineer and designer, he is very active in the academic field being engaged as an adjunct lecturer near Polytechnic University of Tirana, Faculty of Civil Engineering, where he covers the topics of Network Engineering in the Urban Areas such as:

- -Lectures on the preparation of TOR, reliability studies, implementation projects for engineering infrastructure systems in urban areas,
- Lectures on technical management of engineering infrastructure systems in urban areas, etc.

Arjan Jovani is a Hydrotechnic Expert with more than 30 years of experience in construction, design, supervision and monitoring of dams, design and supervision of water infrastructure

systems in urban and rural areas, project control in dam construction area and small HPP, environmental studies, university lectures and technical training in the field of water:

- Project management in line with European standards and water guidelines.
- Consulting for environmental assessments and environmental impact assessments;
 - Experience during the years with projects under the international procedures of the World Bank, EU, USAID and KfW.

10.5 SAP2000 Workshop

Future Engineers Club, initiated by the Department of Civil Engineering at Epoka University, organized a workshop for the Civil Engineering bachelor students, on modeling with SAP2000, an advanced software used in Civil Engineering applications.

The SAP2000 name has been synonyms with state-of- the-art analytical methods since its introduction 32 years ago. SAP2000 follows in the same tradition featuring a very sophisticated, intuitive and versatile user interface powered by an unmatched analysis engine and design tools for engineers.

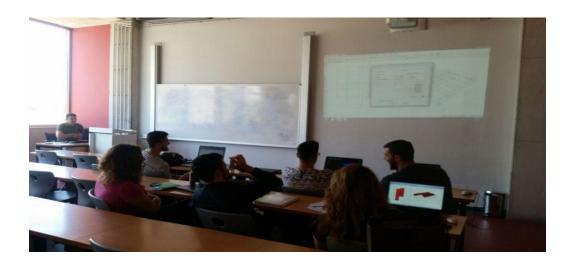


Fig. 5: Photo taken during the workshop

This workshop aimed to provide our Civil Engineering students overall information regarding the modeling of reinforced concrete buildings. Considering the fact that SAP2000 is a sophisticated program, every stage of this training is illustrated with some engineering problems initially solved by hand calculations and in addition modeled and solved using the SAP2000-program.

Therefore this workshop involves a detailed explanation on modeling structural elements by considering most of the possible facilities provided by SAP2000-software. This training is organized with 2nd and 3rd year civil engineering students after having the basic concepts in engineering mechanics and mechanics of material courses.

In addition, the internal forces, shear diagram, moment diagram, stress in frame elements, deformations, stress due to bending, moment of inertia and torsion are demonstrated using hand calculation and SAP2000-software. Moreover, material properties and section properties, including frame elements and shell elements, are considered in details. At the end, a 5-Story building is modeled considering DEAD and LIVE loads, aiming to find the period (T) of the 3D structure. Finally, general conclusions and drawbacks were outlined. Active students in this workshop are awarded with a Certificate of Participation.

10.6 Trip to Valbona

The second trip was organized by Future Engineers Club on May $19^{th} - 20^{th}$. Students from Civil Engineering Department were encouraged to participate in this social as well as technical trip. The aim of this activity was to visit the beautiful Valbona, located in the northern part of Albania Country.

The trip consisted of many activities, such as:

1. Ferry trip along Komani Lake to Fierza where we got to see the breathtaking sights surrounding Koman Lake.

- 2. A quick visit inside Fierza hydropower plant. One of the engineers guided us around the HPP and explained all the processes in details. Then, we went to the top of the dam in order to see the whole HPP.
- 3. The second stop was to the restaurant in Valbona where we had lunch.
- 4. After lunch, we went hiking and reached Valbona's waterfall where we were able to take wonderful photos.
- 5. During the evening, other fun activities were organized by the students and professors, such as games, a bonfire, dancing, etc.
- 6. The second day we visited the old windmill, the canyon of Valbona and the city of B. Curri.
- 7. In midday, we went sightseeing around Prizren and then we had lunch.

8.



Fig. 6: Photo of students and lecturers taken during the activity

In the afternoon, we arrived to Epoka University's Campus Future Engineers Club, would like to thank all students who were present in this activity for their contribution and support. At the same time, FEC is strongly suggesting all students to be part of different activities.

10.7 "Climate Change Programme"- Open Lecture by Ms. Eglantina Bruci

On Thursday, May 25, 2017, Future Engineers Club in collaboration with Civil Engineering department organized an Open Forum entitled: "Climate Change Programme".

For this event, Prof. Dr. Eglantina Bruci was invited from the "Climate Change Programme, UNDP" as a guest speaker at Epoka University.

Ms. Eglantina Bruci was graduated with "Honor" in Physics from the Faculty of Natural Sciences, University of Tirana. She has more than 30 years research work in the area of climate change consisting mainly in:

- Development of climate change scenarios for Albania
- leading the multidisciplinary teams (national and international)on:
 - Climate related vulnerability assessment for different economic sectors in Albania
 - Assessment of adaptation opportunities
- Lead author of a series of fundamental publications related to climate changes for Albania (e.g. 1st, 2nd, 3rd National Communication of Albania to the United Nations Convention Framework on Climate Change);

Prof. Dr. Bruci was involved in many project financed by UNDP, WB, UNESCO, NATO, etc. in the positions of the Manager, Technical Coordinator and/or expert, International consultant and reviewer for several in-depth reviews of the National Communications of Annex I countries, coordinated from the UNFCCC secretariat and involvement in reviewing process of different IPCC reports.

Now Ms. Eglantina holds the Doctor Degree on Special Physics and Scientific Title Professor.



Fig. 7: Ms. Eglantina Bruci during her speech.

In this Open Forum, the guest clarified most of the questions related to the climate changes. Prof. Dr. Eglantina started her presentation with a brief introduction in "What is climate change" then she explained the impacts, implications for engineering, mitigation and adaption etc...

Finally, general conclusions and drawbacks were outlined. Our students were welcomed to ask questions and express their ideas about the topic discussed.

10.8 Assist. Prof. Dr. Erion Luga and Dr. Enea Mustafaraj have participated in the "13th International Conference on Researches in Science and Technology" (ICRST)"

During May 25-26, 2017, two lecturers of department of Civil Engineering, Assist. Prof. Dr. Erion Luga and Dr. Enea Mustafaraj participated in the "13th International Conference on Researches in Science and Technology" (ICRST)", in Lisbon, Portugal. In this Conference Assist. Prof. Dr. Erion Luga has participated with his publication "An Investigation on The Partial Replacement of Portland Cement with Kosovo Fly Ash in Cement Mortars" by Erion Luga, Alban Paja and Cengiz Duran Atis.



Fig. 8: Assist. Prof. Dr. Erion Luga during his presentation.

10.9 Assoc. Prof. Dr. Miriam Ndini as Guest Speaker in the workshop "Assessment of Hydro-Ecological and Socio-Economics systems of the Vjosa River"

The main objective for this project component, under the FPIP project, was the development of an integrated hydrological and water management model for the Vjosa Basin to identify key vulnerabilities to climate change between the years 2015-2050. Understanding specific vulnerabilities within a basin allows planners to propose and prioritize potential adaptation measures, which can be further examined with cost-benefit analyses. This project closely collaborated with the staff from the Institute of Geosciences, Energy, Water and Environment (IGEWE) of the Polytechnic University of Tirana.

10.10 Assoc. Prof. Dr. Miriam Ndini participated in the 2nd Interim Meeting of the Regional Expert Advisory Working Group (REAWG) on Natural Resource Management in Jahorina, Bosnia and Hercegovina

During the February 28th – 02nd March, 2017 in Jahorina, Bosnia and Hercegovina, was held

the 2nd interim meeting of the Regional Expert Advisory Working Group (REAWG) on Natural Resource Management.

This meeting was organized on the conceptual and the technical aspects of the assignment: "Natural resource management in the framework of environmental protection policies and sustainable rural development in the SEE"

This event is organized by Standing Working Group (SWG) on the framework of the project: "Management of Forest, Water and Soil within the Framework of Environmental and Rural Development Policies in South East Europe".

The aim of this meeting was the overview of the progress of the LEIWW program and the objectives of the assignment "Development of evidence-based policy papers to address the current situation and to provide policy recommendations for integrated management of the natural resources in SEE"; Proposal concerning the assessment of the policy framework relevant for the assessment; Elaboration of the methodological approach for the execution of the assessment and definition of the outline of the national reports and the regional synthesis report; Endorsement of the final tables of relevant national data that need to be collected and assessed; Final definition of the activities to be performed and the deadlines for submission of the deliverables; Definition of the consultancy cascade and the roles and responsibilities of the international, regional and local experts; Description of the final product and the possible follow-up activities arising from the assignment.

10.11 The second meeting of The Erasmus + project "Knowledge for Resilient Society"- K-FORCE, in Tirana, Albania.

Epoka University, as partner of the Erasmus + project "Knowledge FOr Resilient soCiEty"- K-FORCE, hosted the K-FORCE project management meeting on February 24th, 2017.

In this event, participating partners presented their preliminary results of the given tasks for the K-FORCE project implementation. The participants especially emphasized market needs in relation to the creation of formal study programs in the WBC in the field of Disaster Risk Management and Fire Safety Engineering. For this purpose the first draft questionnaires for youth and LLL were presented and discussed among the participants. In addition, the meeting

continued with presentation of Western Balkan countries (WBC) National Qualification Frameworks, compared to European Qualification Framework (EQF) and Presentation of WBC accreditation rules. Representatives of Civil Engineering Department of Epoka University, Assoc. Prof. Huseyin Bilgin, Assoc. Prof. Miriam Ndini, Assist. Prof. Erion Luga, M.Sc. Julinda Keçi, together with other project members, attended the meeting and presented a detailed analysis of the Albanian Qualification Framework (AQF).



Fig. 9: Meeting of K-Force participants on February 24th, 2017

At the end of the meeting, a timeframe, expectations and content for upcoming K-FORCE events in 2017 was discussed. After the meeting, a visiting tour was organized, continuing with a Joint Social Dinner in the city of Durrës.

10.12 The third meeting of The Erasmus + project "Knowledge for Resilient Society"- K-FORCE

Assoc. Prof. Dr. Miriam Ndini and Assoc. Prof. Dr. Hűseyin Bilgin participated in the third meeting of The Erasmus + project "Knowledge for Resilient Society"- K-FORCE, took place on April 25th to 30th, 2017 in Alborg and Esbjerg, Denmark. The partners from Aalborg University

in Denmark hosted the four-day event of the K-FORCE project. The first two working days (April 25th and 26th) took place in Aalborg campus, City of Aalborg while the other two working days took place in Esbjerg Campus, city of Esbjerg.



Fig. 10: All the participants during the visit in Aalborg University.

During the first day (April 25th, Aalborg Campus), reports on Western Balkan countries (WBC) needs for Disaster Risk Management (DRM) and Fire Safety Engineering (FSE) master programs and learning outcomes were discussed.

The agenda of the second day (April 26th Aalborg Campus), started with presentations on agreed modalities and the structure of b-learning material. In addition, employment opportunities after completing Master/ Phd in DRM & FSE were discussed (e.g. data on existing professional capacity in every country, job opportunities, any special conditions, certificates defined by the law). During the second day, modalities for training professional staff, university-industry/public bodies cooperation and special mobility strand scheme were discussed.

The agenda of the third day (April 27th, Esbjerg Campus), started with observing a lecture in a master program (MSc) in Risk and Safety Management on Systems Engineering.

In the last day of the K-FORCE study visit (April 28th, Esbjerg Campus), Prof. Michael Faber lectured a course on the topic of Systems Engineering, followed by discussions between the participants of the K-FORCE project.

10.13 M. Sc Julinda Keçi participated 20th EBES Conference hosted by IFM - Real Estate and Facility Management at TU Wien, Vienna, Austria.

On September 28-30, 2016 was successfully organized the 20th EBES Conference hosted by IFM - Real Estate and Facility Management at TU Wien, Vienna, Austria. In the conference, 261 papers by 420 colleagues from 60 countries were presented introducing new research, exchanging information, and discussing current issues from major economics and management fields.

11. TRANSFERRING OF EUROPEAN CREDIT SYSTEM (ECTS); TEACHING LOAD IN CREDIT POINTS IN AND OUTSIDE THE AUDITORIUM

Epoka University curriculums are based on American System and credits. ECTS is used in order to be adopted with the European System. The calculation of ECTS is done according to Directive No. 15 of date 04.04.2008, on Organizing of Studies in Higher Education Institutions in Albania.

This point is explained in the example below:

CODE	COURSE NAME	Т	P	C	ECTS
CE 362	Foundation Engineering	2	2	3	6

T= Theory P= Practice C= Credits according to the American System ETCS = Credits According to the European System

2 theory hours in auditor in a week (lectures, seminars etc.)

2 practice hours in a week (laboratories, project / task, practice etc)

6 * 25 hours = 150 hours in a semester (ECTS)

2 * 15 weeks = 30 theory hours in a semester

2 * 15 weeks = 30 theory hours in a semester

So there are 60 hours in a semester

Individual study = 150 hours - 60 hours = 90 hours in a semester

In the auditor: 60 hours / 25 = 2.4 ECTS

Out of the auditor: 65 hours / 25= 3.6 ECTS

Total = 6 ECTS

a. Organization and form of teaching: ratio between the two

The form of teaching in our department until these moments is only full-time.

b. Methods and technique, and technologies in teaching

Forms of teaching in our department are organized as:

• Lectures,

• Seminars,

• Presentations,

• Laboratory work,

• Course assignments and projects.

12. SCIENTIFIC RESEARCH

a. Policies of scientific research

Civil Engineering Department encourages the scientific research activities. All policies regarded

to scientific research are regulated in the Directive of Encouragement of Scientific Research in

Epoka University.

b. Research groups created by academic staff members of Civil Engineering

Department.

First group: 1-Sustainable Infrastructure RG

Members of the group:

1- Assoc. Prof. Dr. Miriam Ndini

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- 2- Assoc. Prof. Dr. Hüseyin Bilgin
- 3- Dr. Enea Mustafaraj
- 4- M.Sc Julinda Keçi
- 5- M. Sc Armando Demaj
- 6- Res. Assist. Marsed Leti

Second group: 2-Concrete materials and Design

Members of the group:

- 1- Assist. Prof. Dr. Erion Luga
- 2- Kemal Pervage(student)
- 3- Erald Saliasi(student)
- 4- Terens Lamaj(student)
- 5- Ardit Jakupllari(student)

13. NUMBER OF PUBLICATIONS OF OUR ACADEMIC STAFF IN 2016-2017 ACADEMIC YEAR

The Academic staff of the Epoka University, during this period of functioning (2016-2017) has published articles in different scientific journals, proceeding books, newspapers, etc.

1 M. S c Julinda Keçi-

Keci, J., (2016). "Private capital, Public Good: Role of PPPs in Infrastucture provisions in Albania", 20th EBES Conference, 28-30 September 2016, Vienna, Austria.

Keci, J., (2016). "Using Public Private Partnership to Improve Infrastructure Provisions: The Case of Albania", XVI International Scientific Conference VSU(VSU'16), pp. 405-416, 9-10 June 2016, Sofia, Bulgaria.

Assist. Prof. Dr. Erion Luga- Luga, E., Atis, C. D., Karahan, O., Ilkentapar, S., Bahsude Gorur, E. (2017). Strength properties of slag/fly ash blends activated with sodium metasilicate, *GRAĐEVINAR*, 69 (3), 199-205, doi: https://doi.org/10.14256/JCE.1468.2015

3 Assoc. Prof. Dr. Miriam Ndini-

Miriam Ndini et. al.,. (JUNE 2016). *Third National Communication of the Republic of Albania under the United.* TIRANA: Ministry of Environment. ISBN: 978-9928-215-06-http://www.mjedisi.gov.al/files/userfiles/Ndryshimet_Klimatike/TNC_COMPLETE.pdf

4 Assoc. Prof. Dr. Hűsevin Bilgin-

Cited in-1: Huang, B., Chen, S., Lu, W., & Mosalam, K. M. (2017). Seismic demand and experimental evaluation of the nonstructural building curtain wall: A review. Soil Dynamics and Earthquake Engineering, 100, 16-33

Cited in-2: Ozmen H.B, Inel, M. (2016). "Damage Potential of earthquake records for RC building stock". Earthquakes and Structures, An International Journal Volume. 10, No.6, pp.1315-1330 . DOI: $\frac{http://dx.doi.org/10.12989/eas.2016.10.6.1315}{http://dx.doi.org/10.12989/eas.2016.10.6.1315}$

Cited in-3: Ozmen H.B, (2016). "Assessment of damage potential of ground motion records for RC buildings". CEN International Conference on Engineering and Natural Science, At Sarejevo, May 2016.

Cited in-1: Panam Zarfam and Komeyl Karimi moridani (2017). Seismic failure probability of a curved bridge based on analytical and neural network approaches. Shock and Vibration, Hindawi.

Cited in-2:Puspahati, M., Guntorojati, I., Kristiawan, S. A., & Sangadji, S.(2017). Asesmen Kerapuhan Seismik Jembatan dengan Incremental Dynamic Analysis

Cited in-3: Maio, R., Tsionis, G., Sousa, M. L., & Dimova, (2017). S. REVIEW OF FRAGILITY CURVES FOR SEISMIC RISK ASSESSMENT OF BUILDINGS IN EUROPE. 16th World Conference on Earthquake, 16WCEE 2017 Santiago Chile, January 9th to 13th 2017 Paper N° 3283 Registration Code: S-B1461958848.

Cited in-4: Ozmen, H.B. Bull Earthquake Eng (2016). doi:10.1007/s10518-016-0080-8

Cited in-5: Palanci, M., Senel, S. M., & Kalkan, A (2017). Assessment of one story existing precast industrial buildings in Turkey based on fragility curves. Bulletin of Earthquake Engineering, 1-19

Cited in-6: Bilgin, H., & Huta, E. (2016). Earthquake Performance Assessment of a Low-rise URM Building. 3rd International Balkans Conference on Challenges of Civil Engineering, 19-21 May 2016

Cited in-1: Bajoria, K. M., & Kaduskar, S. S. (2017, April). Modeling of a reinforced concrete beam using shape memory alloy as reinforcement bars. In SPIE Smart Structures and Materials+Nondestructive Evaluation and Health Monitoring (pp. 101640S-101640S). International Society for Optics and Photonics.

Cited in-2: Meral, E., & İnel, M. (2016). Düşük ve orta yükseklikteki betonarme binaların yapısal parametre özelliklerinin değerlendirilmesi Evaluation of structural parameters properties of low and mid-rise reinforced concrete buildings. Pamukkale Univ Muh Bilim Derg, 22(6), 468-477, 2016.

Cited in-3: Palanci, M., Kalkan, A., & Senel, S. M. (2016). Investigation of shear effects on the capacity and demand estimation of RC buildings. Structural Engineering and Mechanics, 60(6), 1021-1038.

Cited in-4: Kuleni, F. (2016). Seismic Behavior of Reinforced Concrete Buildings with Mass and Stiffness Irregularities (Doctoral dissertation, AAU).

Cited in-5: Inel, M., & Meral, E. (2016). Seismic performance of RC buildings subjected to past earthquakes in Turkey. EARTHQUAKES AND STRUCTURES, 11(3), 483-503

Cited in -6: H. Derya Arslan, Burak Köken, Evaluation of the Space Syntax Analysis in Post-Strengthening Hospital Buildings, Architecture Research, Vol. 6 No. 4, 2016, pp. 88-97. doi: 10.5923/j.arch.20160604.02

Cited in 7-: Aksoylu C, Ozturk, O, Erkan, I., H and Arslan, M. H., "Investigation of the vertical column discontinuity", International Journal of Scientific and Engineering Research 7(6):474-481 · June 2016

Cited in-1: Pohoryles, D. A. (2017). Realistic FRP seismic strengthening schemes for interior reinforced concrete beam-column joints (Doctoral dissertation, UCL (University College London)).

Cited in-2: Choi, K. K., Dinh, N. H., & Kim, J. C. (2017). Behaviour of non-seismic detailed reinforced-concrete beam–column connections. Proceedings of the Institution of Civil Engineers-Structures and Buildings, 1-17

Cited in-3: Magni, M., Fraboni, R., & Marincioni, F. (2017). Emergency Preparedness and Management at the University of L'aquila (Central Italy) and the Role of Students' Associations in the April 6th 2009 Earthquake. PLOS Currents Disasters.

Cited in -4: Silva, L. C., Milani, G., & Lourenço, P. B. (2016). A discrete macro-model homogenized with a holonomic approach for the nonlinear static analysis of out-of-plane loaded masonry. Conference: SAHC2016, At Leuve, Belgium.

Cited in-5: Sebastiani, P. E., Petrini, F., & Bontempi, F. (2016). Back calculation and model calibration for earthquake damaged bridges-a general procedure and its application to a highway viaduct. Structure and Infrastructure Engineering, 12(8), 949-963.

Cited in-6:Bilgin, H. (2015). Generation of Fragility Curves for Typical RC Health Care Facilities: Emphasis on Hospitals in Turkey. Journal of Performance of Constructed Facilities, 30(3), 04015056

Cited-20: Ferreira, T. M., Costa, A. A., & Costa, A. (2015). Analysis of the Out-Of-Plane Seismic Behavior of Unreinforced Masonry: A Literature Review.International Journal of Architectural Heritage, 9(8), 949-972

Cited-1: Bilgin, H., & Huta, E. (2016). Earthquake Performance Assessment of a Low-rise URM Building. 3rd International Balkans Conference on Challenges of Civil Engineering, 19-21 May 2016, Epoka University, Tirana, Albania.

Cited-2: Bilgin, H. (2016). "Generation of Fragility Curves for Typical RC Health Care Facilities: Emphasis on Hospitals in Turkey." J. Perform. Constr. Facil., 10.1061/(ASCE)CF.1943-5509.0000806, 04015056.

Cited-1: Rihar, J., 2016. Projektiranje zidanih stavb na ciljno potresno tveganje. M.Sc. Thesis. Ljubljana, University of Ljubljana, Faculty of civil and geodetic engineering. (supervisor Dolšek, M.): 73 pp.

Cited-2: Bilgin, H., & Huta, E. (2016). Earthquake Performance Assessment of a Low-rise URM Building. 3rd International Balkans Conference on Challenges of Civil Engineering, 19-21 May, 2016

Cited-3: Merita Guri, Diana Lluka, Egla Luca. (2015). Assessment and Improvement of Seismic Performance of the Masonry Bearing Building Stock in Albania. International Journal of Engineering Research & Technology, Volume. 4 – Issue. 10, October – 2015. e-ISSN: 2278-0181

Cited-1: FATIGUSO, F., DE FINO, M., & SCIOTI, A. (2017). Performance Assessment Of Italian School Heritage Architecture By Non-destructive Investigation. International Journal of Heritage Architecture, 1(4), 564-579.

Cited-2: Bilgin, H., & Huta, E. (2016). Earthquake Performance Assessment of a Low-rise URM Building. 3rd International Balkans Conference on Challenges of Civil Engineering, 19-21 May 2016, Epoka University, Tirana, Albania.

Cited-1: Meral, E., & İnel, M., (2016). "Evaluation of structural parameters properties of low and midrise reinforced concrete buildings". Pamukkale University Journal of Engineering Sciences. doi: 10.5505/pajes.2016.29291. 22(6), 468-477

Cited-5: Ozmen H.B, Inel, M. (2016). "Damage Potential of earthquake records for RC building stock". Earthquakes and Structures, An International Journal Volume. 10, No.6, pp.1315-1330. DOI: http://dx.doi.org/10.12989/eas.2016.10.6.1315

Cited-1: Ozmen, H. B., M. Inel, S. M. Senel, and A. H. Kayhan. "Structure-Concrete.". (2015, March). Load carrying system characteristics of existing Turkish RC building stock. International Journal of Civil Engineering, Vol 13, No:1. Transaction A: Civil Engineering..

Cited-1: Nelson, F. R. (2016). Study of spatial organization of the contemporary churches in Bangladesh, (Master of Architecture). Nov, 2016; Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

Cited-2: Ozmen H.B, (2016). "Assessment of damage potential of ground motion records for RC buildings". CEN International Conference on Engineering and Natural Science, At Sarejevo, May 2016.

14. COURSE APPOINTMENT FOR 2016-2017 ACADEMIC YEAR

FALL SEMESTER

CODE	COURSE NAME	T	P	C	ECTS	Lecturer
CE 101	Introduction to Civil Engineering	2	0	2	4	Julinda Keçi
CE 211	Engineering Economics	4	0	4	6	Julinda Keçi
CE 221	Materials Science	3	0	3	4	Erion Luga

CE 231	Engineering Mechanics I	4	0	4	6	Hűseyin Bilgin
XXX	Non-Technical Elective Courses	3	0	3	5	FEAS
CE 282	Principles of Transportation and Traffic Engineering	3	2	3	6	Edison Barhani
CE 300	Summer Practise I	0	0	0	4	Julinda Keçi
CE 341	Fluid Mechanics	3	0	3	4	Miriam Ndini
CE 361	Soil Mechanics	4	0	4	5	Armando Demaj
CE 391	Structural Mechanics	4	0	4	5	Enea Mustafaraj
CE 392	Reinforced Concrete Fundamentals	4	0	4	6	Enea Mustafaraj
CE 399	Microthesis	1	4	4	6	Miriam Ndini- Enea Mustafaraj- Julinda Keçi
CE 401	Supervised Group Study and Research	1	4	3	6	Hűseyin Bilgin- Miriam Ndini-Erion Luga-Enea Mustafaraj
CE 410	(Elective) Special Concretes	3	0	3	6	Erion Luga
CE 416	(Elective) Risk Management in Construction	3	0	3	6	Miriam Ndini-Julinda Keçi
CE 448	(Elective) Intermediate Structural Dynamics	3	0	3	6	Hüseyin Bilgin
CE 452	(Elective) Statistical Techniques in Hydrology	3	0	3	6	Miriam Ndini
CE 489	Fundamentals of Steel Design	2	2	3	7	Enea Mustafaraj
CE 560	Term Project	0	0	0	10	Hűseyin Bilgin- Miriam Ndini-Erion Luga-Elfrida Shehu- Enea Mustafaraj
CE 591	Special Studies in Civil Engineering	3	0	3	14	Hűseyin Bilgin- Miriam Ndini-Erion Luga-Elfrida Shehu- Enea Mustafaraj
CE 500	Master Thesis	0	0	0	30	Hűseyin Bilgin- Miriam Ndini-Erion Luga- Enea Mustafaraj- Elfrida Shehu-Hektor Cullufi- Ervin Paçi
CE 814	Earthquake Engineering	3	0	3	7.5	Hűseyin Bilgin

CE 834	Advanced Hydrology	3	0	3	7.5	Miriam Ndini
CE 853	Advanced Material of Construction	3	0	3	7.5	Erion Luga
CE 855	Repair and Strengthening of Structure	3	0	3	7.5	Enea Mustafaraj
CE 800	PhD Thesis	0	0	0	120	Hűseyin Bilgin

SPRING SEMESTER

CODE	COURSE NAME	T	P	С	ECTS	Lecturer
CE 100	Civil Engineering Drawing	3	2	4	7	Artan Hysa- Anna Yunitsyna
CE 102	Geology for Civil Engineers	3	0	3	5	Ylber Muceku
CE 222	Introduction to Construction Materials	3	2	4	8	Erion Luga
CE 232	Engineering Mechanics II	3	0	4	5	Enea Mustafaraj
CE 234	Mechanics of Materials	3	2	4	7	Hüseyin Bilgin
CE 281	Surveying	2	2	3	6	Edison Barhani
CE 300	Summer Practice I	0	0	0	4	Julinda Keci
CE 312	Construction Engineering and Management	4	0	4	6	Julinda Keçi
CE 342	Hydromechanics	4	0	4	6	Miriam Ndini
CE 362	Foundation Engineering	2	2	3	6	Armando Demaj
CE 394	Structural Analysis	4	0	3	6	Enea Mustafaraj
CE 399	Graduation Project	0	0	0	6	Miriam Ndini- Erion Luga- Enea Mustafaraj- Julinda Keçi- Armando Demaj- Edison Barhani
CE 355	Final Comprehensive exam	0	0	0	6	Armando Demaj
CE 402	Supervised Independent Study and Research	1	4	3	9	Hüseyin Bilgin

CE 402	Supervised Independent Study and Research	1	4	3	9	Miriam Ndini
CE 402	Supervised Independent Study and Research	1	4	3	9	Erion Luga
CE 402	Supervised Independent Study and Research	1	4	3	9	Enea Mustafaraj
CE 490	Special Topics in Civil Engineering	3	0	3	9	Enea Mustafaraj
CE 414	Elective - Construction Planning	3	0	3	6	Miriam Ndini- Julinda Keçi
CE 479	Elective - Durability of Concrete	3	0	3	6	Erion Luga
CE 495	Elective - Introduction to Earthquake Resistant Design	3	0	3	6	Hüseyin Bilgin
CE 496	Elective - Water Resources Engineering	3	0	3	6	Miram Ndini
CE 521	Elective - Fundamentals of River Engineering	3	0	3	6	Miriam Ndini
CE 500	Master Thesis	0	0	0	30	Hüseyin Bilgin- Miriam Ndini,-Erion Luga - Enea Mustafaraj- Elfrida Shehu -Ervin Paçi - Hektor Cullufi
CE 400	Engineering Aplication	0	0	0	10	Julinda Keçi
CE 402	Supervised Independent Study and Research	1	4	3	12	Hüseyin Bilgin
CE 402	Supervised Independent Study and Research	1	4	3	12	Miriam Ndini
CE 402	Supervised Independent Study and Research	1	4	3	12	Erion Luga
CE 402	Supervised Independent Study and Research	1	4	3	12	Enea Mustafaraj
CE 495	Elective - Introduction to Earthquake Resistant Design	3	0	3	6	Hüseyin Bilgin

CE 496	Elective - Water Resources Engineering	3	0	3	6	Miram Ndini
CE 479	Elective - Durability of Concrete	3	0	3	6	Erion Luga
CE 414	Elective - Construction Planning	3	0	3	6	Miriam Ndini- Julinda Keçi
CE 521	Elective - Fundamentals of River Engineering	3	0	3	6	Miriam Ndini
CE 811	Advanced Structural Dynamics	3	0	3	7.5	Hüseyin Bilgin
CE 812	Behavior of RC Members and Structures	3	0	3	7.5	Hüseyin Bilgin
CE 851	Concrete Durability	3	0	3	7.5	Erion Luga
CE 852	Advanced Concrete Technology	3	0	3	7.5	Erion Luga
CE 855	Repair and Strengthening of Structures	3	0	3	7.5	Enea Mustafaraj
CE 800	PhD Thesis	0	0	0	120	Hüseyin Bilgin