REPUBLIC OF NORTH MACEDONIA
SS CYRIL AND METHODIUS UNIVERSITY IN SKOPJE

ИЗИИС
IZIIS

REPORT

ON RE-ACCREDITATION OF STUDY PROGRAMME

Earthquake Engineering
Second cycle of studies
Two-year studies

INSTITUTION PROPOSING THE STUDY PROGRAMME

Institute of Earthquake Engineering and Engineering Seismology - Skopje

Skopje, November 2022

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	First accreditation
●	Re-accreditation

1. GENERAL DATA ON THE SUBMITTER OF THE REQUEST

Title of the higher education institution

Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology

Address /Seat

Todor Aleksandrov Str. 165, Skopje

Express mail	Registration number
	6462812
Telephone	**Fax**
+389-2-3107-701	+389 3112 163
E-mail	Web site of the institution
institut@iziis.ukim.edu.mk	www.iziis.ukim.edu.mk

2.1 DATA ON THE FOUNDATION OF THE HIGHER EDUCATION INSTITUTION - UNIVERSITY

Title of the founder	Presidency of the Presidium of the National Assembly of NR Macedonia

Title of the foundation act	Law on the University in Skopje

Number and date of the foundation act	Official Gazette of NRM no. 4, 25.11.1949

Changes in the founders' rights (titles of the first founder and the legal successors of the founder)	
Number and date of the Decision on Fulfilment of Conditions for Beginning with Work and Activities issued by the Ministry of Education and Science of RNM	
Number and date of the Decision on Accreditation of the Higher Education Institution issued by the Higher Education Accreditation and Evaluation Board of RNM	
Number and date of the Decision on Entry of the Higher Education Institution in the Central Register	30120170021699/2009

2.2 DATA ON THE FOUNDATION OF THE HIGHER EDUCATION INSTITUTION APPLYING FOR ACCREDITATION

Title of the founder	University in Skopje

Title of the foundation act	Decision

Number and date of the foundation act	01-2/1 as of 27.05.1965

Changes in the founders' rights (titles of the first founder and the legal successors of the founder)	University in Skopje – the first founder -WO Institute of Earthquake Engineering and Engineering Seismology – status change -Government of RM, Ministry of Science and Education – status change -Ss. Cyril and Methodius University Skopje- status change, joining UKIM as a unit

Number and date of the Decision on Fulfilment of Conditions for Beginning with Work and Activities issued by the Ministry of Education and Science of RNM	09-1132/1 as of 09.07.2018
Number and date of the Decision on Accreditation of the Higher Education Institution issued by the Higher Education Accreditation and Evaluation Board of RNM	1409-151/3 as of 10.05.2018
Number and date of the Decision on Entry of the Higher Education Institution in the Central Register	30120170021699/2009

3. OWNERSHIP STRUCTURE OF THE HIGHER EDUCATION INSTITUTION

●	State		Private		Mixed

4. ACTIVITY OF THE HIGHER EDUCATION INSTITUTION ACCORDING TO THE FRASCATI CLASSIFICATION

a) Scientific sphere	2. Technical-technological sciences
b) Scientific field)	207. Civil engineering and water power economy
c) Scientific domain	20703. Earthquake engineering

5. AUTHORITY REPRESENTING THE HIGHER EDUCATION INSTITUTION

Name and surname, position (rector/dean/director)

Vlatko Sesov, full time professor, director

Date and act of appointment

09-1565/1 dated 08.10.2021, Decision made by the Scientific Council

Contact Telephone

02 3107-701

E-mail

vlatko@iziis.ukim.edu.mk

Contact person

Name and surname	Telephone	E-mail
Zoran Rakićević	02 3107-701	zoran_r@iziis.ukim.edu.mk

Date: 15.11.2022

Official stamp

Authorized person

6. LEGAL BASIS FOR THE PREPARATION OF THE REPORT

1. Law on Higher Education (Official Gazette of the Republic of Macedonia, no. 82/2018);
2. Decree on Norms and Standards for the Establishment of Higher Education Institutions and for Performing of Higher Education Activity (Official Gazette of the Republic of Macedonia no. 103/10); Classification of scientific spheres, fields and domains according to the International Frascati Classification;
3. Rulebook on Organization, Operation, Mode of Decision Making, Methodology for Accreditation and Evaluation, Standards for Accreditation and Evaluation as well as Other Issues Related to Operation of the Higher Education Accreditation and Evaluation Board (Official Gazette of the Republic of Macedonia no. 151/12);
4. Rulebook on Compulsory Components that Should be Contained in the Study Programmes of the First, the Second and the Third Cycle of Studies (Official Gazette of the Republic of Macedonia no.25/11);
5. Guidelines on Criteria about Mode of Providing and Assessing the Quality of Higher Education Institutions and Academic Staff in the Republic of Macedonia (Official Gazette of the Republic of Macedonia no. 67/13);
6. Decree on the National Framework of Higher Education Qualifications (Official Gazette of the Republic of Macedonia no.154/2010);
7. Rulebook on Contents and Form of Diploma, Guidelines for Preparation of Diploma Supplement and other Public Documents (Official Gazette of the Republic of Macedonia no. 84/09);
8. Rulebook on Detailed Criteria and Competence of Boards for Cooperation and Public Trust (Official Gazette of the Republic of Macedonia no.148/13);
9. Rulebook on Manner and Conditions for Organizing Practical Training for Students (Official Gazette of the Republic of Macedonia no. 71/09 and 120/10);
10. Law on Recognition of Professional Qualifications (Official Gazette of the Republic of Macedonia no. 171/10);
11. Rulebook on Manner and Procedure for Keeping Database on Higher Education Activity (Official Gazette of the Republic of Macedonia no.65/13);
12. Law on Scientific-Research Activity (Official Gazette of the Republic of Macedonia no. 46/08, 103/08, 24/11 and 80/12);
13. Law on Higher Education Institutions for Education of Teaching Staff in Pre-school, Primary and Secondary Education (Official Gazette of the Republic of Macedonia no. 10/15);
14. Statute of the Ss. Cyril and Methodius University (University Herald no. 425 dated 28.6.2019);
15. Decision on Accreditation of a Higher Education Institution issued by the Higher Education Accreditation and Evaluation Board of the Republic of Macedonia, and
16. Other acts.

List of compulsory components that the study programmes should contain

1. Map of the higher education institution

Title of the higher education institution	**SS CYRIL AND METHODIUS UNIVERSITY IN SKOPJE, INSTITUTE OF EARTHQUAKE ENGINEERING AND ENGINEERING SEISMOLOGY - SKOPJE**
Seat	Todor Aleksandrov Str. No. 165, 1000, Skopje
WEB-site	www.iziis.ukim.edu.mk
Type of higher education institution (state, private, mixed)	State
Data on the last accreditation	**SECOND CYCLE OF STUDIES** Decisions made by the Accreditation Board: **Programme 1:** Structural Engineering and Seismic Design with a duration of 2/3/4 semesters: no. 1409-152/3 as of 10.05.2018; 1409-152/5 as of 06.06.2018;1409-152/6 as of 06.06.2018. **Programme 2:** Earthquake Engineering with a duration of 2/3/4 semesters: no. 1409-152/4 as of 10.05.2018; 1409-152/7 as of 06.06.2018; no. 1409-152/8 as of 06.06.2018. Decisions on beginning of operation of the study programme made by the Ministry of Education and Science: **Programme 1:** Structural Engineering and Seismic Design with a duration of 2/3/4 semesters: no. 0-09-1204/1 as of 19.07.2018. **Programme 2:** Earthquake Engineering with a duration of 2 semesters: no. 09-1132/1 as of 09.07.2018. Earthquake Engineering with a duration of 3/4 semesters: no. 09-1131/1 as of 09.07.2018. **THIRD CYCLE OF STUDIES** Decision made by the Accreditation Board: **Programme:** Earthquake Engineering, no. 1409-151/3 as of 10.05.2018. Decision on Beginning of Operation of the Study Programme made by the Ministry of Education and Science: **Programme:** Earthquake Engineering, no. 09-1132/1 as of 09.07.2018.
Study and scientific-research spheres for which accreditation has been awarded	Study programmes for the second cycle: • Scientific sphere: technical-technological sciences • Scientific field: civil engineering • Scientific domain: earthquake engineering, structural engineering and seismic design Study programme for the third cycle • Scientific sphere: technical-technological sciences • Scientific field: civil engineering • Scientific domain: earthquake engineering

Data on international cooperation regarding lecturing, research and mobility of students	UKIM-IZIIS has cooperated with the IUSS University in Pavia, the Federico II University, Napoli, the University in Bari, Italy; the Aristoteles University in Thessaloniki and the University in Patras, Greece; the universities in Weimar, Bochum, Kassel, Aachen in Germany; the University in Aveiro and the National Laboratory LNEC in Lisbon, Portugal; the Boku University in Vienna, Austria; the universities in Zagreb, Osijek, Rijeka and Split in Croatia; the University in Ljubljana, Slovenia; the University in Novi Sad, Serbia; the Polytechnical University, Tirana, Albania etc., based on signed memorandums for cooperation, exchange of lecturers and students and concluded international projects. The mobility of students is realized within international research projects and through Erasmus+.
Data on premises intended for realization of lecturing and research activities	Facilities accommodating UKIM-IZIIS: • Administrative premises – 3 buildings • Laboratory premises – 1 building • Classrooms and premises for individual learning 150 m2; • Laboratories for experiments and scientific research work - 6 • Cabinets for teaching scientific and associate staff - 30 • Library - 1 • Cabinet for students' issues – 1
Data on equipment for realization of lecturing and research activities	1. Laboratories for realization of experimental research in controlled conditions and on field (6) 2. Network Internet connections for students – 30, for teaching staff – 50, for administration – 4, for library – 9 (There is also a wireless Internet) 3. Base type SCOP1JS number 5 4. Library with a large fund of books in the domain of the study programmes, professional journals, domestic and foreign, manuals, textbooks, dictionaries, etc. The library is also equipped with personal computers, printers, Internet connection, photo copying machine. 5. Computer equipment intended for students and teaching staff: computers – 10, Internet connections – 30+5, LCD projectors – 1, printers 1 + 25 6. Modern audio visual equipment for the performance of the teaching process (video beams, screens, interactive smart board and microphones, tv sets)
Total number of students for which accreditation has been awarded	Maximum 15 per study programme
Number of students (enrolled for the first time)	5 students in the academic 2018/2019
Planned number of students that will be enrolled in the study programme	30
Number of persons with teaching-scientific, scientific and teaching titles	• Full professors 9 • Associate professors 6 • Assistant professor 1
Number of persons with associate titles	• Assistants 10
Lecturer/students ratio	1:2.1875 (in respect to the total number of enrolled students - table 10.1)
Internal mechanisms for providing and control of the quality of studies	• Scientific Collegium • Scientific Council • Commission for Self-evaluation

Period for effectuation of internal evaluation	So far, six self-evaluations have been done as follows: in 2002, 2007, 2010 and 2013, 2017 and 2020. At each three-year period, a self-evaluation report is to be prepared in accordance with the regulations.
Data on the last performed external evaluation	2017 https://www.ukim.edu.mk/dokumenti_m/samo_ev/NE-2018-UKIM-EN.pdf
Other data that the higher education institution would like to state as an argument speaking for itself about its successfulness	Since the beginning of the master and doctoral studies at IZIIS in 1965, the lecturing process has been going on continuously and in English language. UKIM-IZIIS provides, publishes and delivers literature in English language to students in order to be able to follow the lecturing process. The educational process is also supported by active participation of the students in ongoing scientific research projects, realization of international mobility within the frames of ERASMUS+ and other instruments, participation in summer schools, trainings, workshops and alike. In accordance with its current financial status, the Institute provides fellowships to the best enrolled students in the form of exemption from payment of the prescribed tuition fee.

2. Main data on the study programme for which re-accreditation is requested

1	Title of the study programme	Earthquake Engineering
2	Title of the University unit	Institute of Earthquake Engineering and Engineering Seismology - Skopje
3	Decision on adoption of the study programme made by the Scientific Council of the unit	Decision no. 09-1690/1 dated 22.11.2022
4	Decision on adoption of the study programme made by the Rector's Office or the University Senate	Decision no. 02-1157/5 dated 27.12.2022
5	Scientific sphere (Frascati classification)	2. Technical-technological sciences
6	Scientific field and scientific, professional or artistic domain (Frascati classification)	207. Civil engineering and water power economy 20703. Earthquake engineering
7	Type of studies	Academic studies
8	Workload of the study programme expressed in ECTS credits	120 ECTS
9	Degree or level of qualification acquired after finishing the studies according to the National Framework of Qualifications	VII
10	Academic or professional title (profile) awarded to the student upon completion of the study programme	Магистер на науки од областа на земјотресното инженерство
11	Academic or professional title in English language that the student is awarded upon completion of the study programme	Master of science in earthquake engineering field
12	Time duration of the studies (in academic years)	2 years 4 semesters

13	Academic year in which the realization of the study programme is anticipated to start	2023-2024
14	Number of students that are planned to be enrolled in the study programme	30
15	Language in which the lecturing process will be realized	Lecturing is performed in Macedonian and English language. The passing of the exams and the defence of the master thesis can be done in both Macedonian or English language.
16	Is the study programme submitted for accreditation or re-accreditation?	Re-accreditation
17	Mode of financing of the proposed study programme	• Self-financing of students (The amount of the tuition fee is 1900 €. It is defined by decision of the Scientific Council and it includes the expenses related to the study. The tuition fee does not include material expenses referring to research for the thesis, mobility, visiting-lecturers and other expenditures pursuant to the agreement on the study). • Fellowships awarded by the Ministry of Education and Science • Fellowships awarded by the industry and the construction sector • International fellowships from various funds • Fellowships awarded by IZIIS
18	Conditions for enrolment in the study programme (separately for full time, part time and foreign students)	In accordance with Article140, item 7 of the Law on Higher Education
19	Information about continuation of education	By finishing the second cycle of studies, the student acquires the right to enrolment in the third cycle of studies

3. Objective and justification of introducing the study programme

The study of the most recent scientific achievements in the field of modern civil engineering and particularly in structural engineering and earthquake engineering with engineering seismology as the main disciplines represents the main prerequisite for adequate practical advancement and permanent development of several basic and/or essential industrial sectors.

The countries in Southeast Europe as well as a large number of countries in Europe and worldwide are located in seismically active regions that, with their permanent and high seismic activity, represent the reason for occurrence of big natural disasters accompanied by heavy consequences. The moment of occurrence of an earthquake can still not be predicted, however, the increasing development of a large number of regions worldwide presently makes earthquakes the most serious large-scale natural disasters. The annual average loss of human lives amounts to several tens of thousands according to existing statistic data on the XX century. In most of the cases, the exceptionally large losses of material values cause heavy economic and social impacts upon entire countries and regions.

From the stated reasons, in all seismically vulnerable states and regions in Europe and worldwide, it is necessary to take urgent and adequate measures to minimize the consequences of seismic effects in future. One of the most effective approaches includes taking national, scientifically based, integral technical and organizational measures for minimization of both direct and indirect losses due to future earthquakes.

To successfully effectuate an integral national strategy for minimization of earthquake consequences, the first, i.e., the main step is education of staff through organization of post-graduate, i.e., master studies in the

specific fields as are modern structural engineering and earthquake engineering, engineering seismology, geotechnical engineering, ecology and alike.

The master studies organized by IZIIS enable continuous creation of corresponding needed staff and experts, have an extraordinary importance, and are highly socially and economically justified. In addition to their contribution to the general progress of civil engineering, they will continuously contribute to the development of the technology for minimization of the consequences of future earthquake disasters in our country and beyond, in seismically active regions in Europe and worldwide.

The main purpose of the post-graduate master studies at IZIIS is permanent education of adequate staff in the specific scientific fields not only in our country, but also in other neighbouring and European countries as well as many countries throughout the World. These wide international achievements will be realized through international exchange of students and involvement of own experts and world renowned experts in the process of permanent education. The admission of students from abroad and the establishment of distributed post-graduate master studies abroad will provide a wide international positive contribution to the achievement of the set universal educational goals. In the course of this educational process, there will be provided an adequate international compatibility of the proposed educational programme with similar programmes that are being realized in developed countries worldwide, i.e., programmes that have widely been accepted in the modern world educational, developmental and applicative practice.

4. Harmonization of the study programme with the needs of society for the given staff profiling

The study programme in earthquake engineering of UKIM IZIIS is conceptualized in such a way as to satisfy the educational needs of the students of the second cycle of studies that have started a career or would like to make a career in the field of structural engineering and earthquake engineering.

Upon completion of the studies of the second cycle, the students will understand the potential of the earthquakes and the effect that they have upon structures and will acquire knowledge, skills and competence by which they will contribute to the design of seismically resistant structures, reduction of the entire seismic risk and building of a seismically resilient society.

In this context, within the National Platform for Disaster Risk Reduction, with its scientific potential and staff that it creates, IZIIS is referred to as a scientific institution of extraordinary importance for prevention of risks pertaining to earthquakes and other natural and technological hazards.

In the report on the poll about needs for skills on the labour market that is regularly carried out by the State Statistical Office (November 2019), it is clearly stated that 57.5% of the expected jobs, seen through level of necessary knowledge and activity of the employer, include professional, scientific and technical activities.

Questionnaire about the need for skills on the labour market in the Republic of North Macedonia for 2020

Анкета за потреба од вештини на пазарот на трудот во Република Северна Македонија за 2020

5. General descriptors of qualifications for the second cycle of two-year studies with 120 ECTS, study programme – Earthquake Engineering, Ss. Cyril and Methodius University in Skopje, according to the Decree on the National Framework for Higher Education Qualifications

Level in the National Framework for Higher Education Qualifications		Higher education	Level in the European Framework of Higher Education Qualifications
VII		II cycle of master academic studies Two-year studies – 120 ECTS	7

Qualifications that mean successful completion of the second cycle of studies (120 ECTS) are awarded to a person that fulfils the conditions according to the following descriptors of qualifications:

5.1. General descriptors of qualifications for the second cycle of two-year studies with 120 ECTS, study programme – Earthquake Engineering, Institute of Earthquake Engineering and Engineering Seismology – Skopje, Ss. Cyril and Methodius University in Skopje, in accordance with the Decree on the National Framework for Higher Education Qualifications

Type of a descriptor	Description
Knowledge and understanding	✓ Shows knowledge and understanding in the sphere of technical and technological sciences, earthquake engineering domain, which is upgraded based on previous three-year, four-year or five-year high education – the first cycle, including also knowledge in the domain of theoretical, practical, conceptual, comparative and critical perspectives of earthquake engineering. ✓ Understands all domains of earthquake engineering, civil engineering and related technical sciences and has knowledge of current issues related to scientific research and new sources of knowledge. ✓ Shows knowledge and understanding of different theories, methodologies.
Application of knowledge and understanding	✓ Can apply knowledge in a way that shows a professional approach to the work and the profession of master of science in the earthquake engineering domain. ✓ Shows competence in identification, analysis and solving of problems. ✓ Ability to find out and support arguments in the frames of earthquake engineering. ✓ Ability for critical, independent and creative solving of problems with a certain originality in new or unknown environments and in a multi-disciplinary context, connected with earthquake engineering, civil engineering and other related technical sciences.
Ability to assess	✓ Ability to collect, analyse, assess and present information, ideas and concepts from relevant data. ✓ Ability to integrate knowledge and make corresponding assessment taking into account personal, social, scientific and ethical aspects.

	✓ Ability to assess theoretical and practical issues, provide explanation about reasons and select a corresponding solution. ✓ Ability to manage complex issues, systematically and creatively, for sound assessment even in case of incomplete and limited information, however, including personal, social and ethical responsibilities in application of the acquired knowledge and evaluation.
Communication skills	✓ Ability to communicate and discuss with both professional and other public about information, ideas, problems and solutions when the criteria for decision making and the scope of the task are clearly defined. ✓ Taking significant responsibility about collective results; leading and initiating activities. ✓ Ability for independent participation, with a professional approach, in specific, scientific and interdisciplinary discussions.
Learning skills	✓ Ability to recognize personal needs for further knowledge and ability for independent action in acquiring new knowledge and skills in social frames. ✓ Ability to take responsibility and further professional development and improvement.

5.2. Specific descriptors of qualifications for the second cycle of two-year studies with 120 ECTS, study programme – Earthquake Engineering, Institute of Earthquake Engineering and Engineering Seismology – Skopje, in accordance with the Decree on the National Framework for Higher Education Qualifications

Type of a descriptor	Description
Knowledge and understanding	✓ Enabled is education of candidates in the earthquake engineering domain, including study of modern methods of analysis, design and evaluation of structural systems exposed to the effect of vertical and seismic loads as well as other specific types of static and dynamic loads. ✓ Acquired is knowledge of a wide spectrum of specific sub-domains of the domain of earthquake engineering and seismic design. ✓ Acquired is knowledge in the domain of modern numerical methods of analysis, expertise, design and evaluation of seismic resistance of structures as well as an adequate basic education in the earthquake engineering domain about structures of the type of buildings with different structural systems (reinforced concrete, steel, masonry, mixed, etc.) and a large number of complex engineering structures of different categories (bridges, dams, special structures, infrastructure systems, etc.). ✓ Acquired is knowledge in the field of reduction and management of risks pertaining to natural disasters, particularly seismic risk. ✓ Acquired is knowledge in the domain of dynamics of soils and foundations.
Application of knowledge and understanding	✓ Production of creative staff that will be able to continue their high education until reaching the academic title of doctor of technical sciences. ✓ Training of candidates for creative and developmental design activities in the earthquake engineering domain.

	✓ Training of candidates for realization of complex design tasks in the domain of design and seismic stability and safety of different types of engineering structures. ✓ Training of staff for solving complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics. ✓ Training of staff for realization of activities for reduction of risks pertaining to natural disasters. ✓ Training of staff for repair and strengthening of buildings, engineering and special structures until the required level of seismic safety is provided.
Capability to assess	✓ Creation of capable staff that will be able to continue their higher education until they acquire the academic title of doctors of technical sciences. ✓ Capability for creative and developmental activity in the earthquake engineering domain. ✓ Capability for realization of complex design tasks in the domain of design and seismic stability and safety of different types of engineering structures. ✓ Capability for solving complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics. ✓ Capability for management of activities for reduction of risks pertaining to natural disasters. ✓ Capability to perform activities for repair and strengthening of buildings, engineering and special structures until the required level of seismic safety is provided.
Communication skills	✓ Shows ability to present, in a simple and clear way, information related to his/her professional activity, orally and in writing, in accordance with the cultural level of the collocutor. ✓ Shows ability to use his/her knowledge and skills, professionally communicate with colleagues and collaborators, work efficiently as team member and coordinate activities.
Learning skills	✓ Demonstrates developed learning skills (concentration, reading, listening, memorizing, use of time) that enable him/her to continue the studies in an autonomous way for the purpose of educating himself/herself in specific professional fields for life. ✓ Ability to consult all kinds of scientific literature for complete use for the purpose of application of the results in investigations carried out for practical purposes. ✓ Ability to use effective strategies for own education, including the use of the computer technology. Attends professional meetings.

6. Defined ratio between compulsory and optional subjects, with a list of compulsory subjects, a list of optional faculty and university subjects and defined manner of selection of subjects

STRUCTURE OF THE STUDY PROGRAMME

Table 6.1. Distribution of subjects per semesters and study years for academic studies (AC)

No.	Code of subject	Title of teaching subject	Semester	Weekly fund of lecture hours		ECTS
				L	E	
THE FIRST YEAR						
1.	MS-101	Dynamics of Structures	1	2	2	6
2.	MS-102	Finite Element Analysis	1	2	2	6
3.	MS-103	Engineering Seismology	1	2	2	6
4.	MS-104	Nonlinearity of Engineering Materials	1	2	2	6
5.	MS-201	Reinforced Concrete Structures	2	2	2	6
6.	MS-202	Dynamics of Soils and Foundations	2	2	2	6
7.	MS-203	Steel Structures	2	2	2	6
8.		Optional lecturing subject from the University list of optional subjects	1	2	2	6
9.		Optional for the II semester	2	2	2	6
10.		Optional for the II semester	2	2	2	6
Total lecture hours (lectures/practical exercises) and number of ECTS credits in the study year.				20	20	60

No.	Code of subject	Title of lecturing subject	Semester	Weekly fund of lecture hours		ECTS
				L	E	
THE SECOND YEAR						
1.	MS-301	Fundamentals of Seismic Risk	3	2	2	6
2.	MS-302	Bridges, Transportation and Infrastructure Systems	3	2	2	6
3.	MS-303	Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures	3	2	2	6
4.		Optional for the III semester	3	2	2	6
5.		Optional for the III semester	3	2	2	6
6.		Practice	4			5
7.		Master thesis	4			25
Total lecture hours (lectures/practical exercises) and number of ECTS credits in the study year				10	10	60

Table 6.2. Optional lecturing subjects of the study programme

Type of optional lecturing subject	Number
Lecturing subjects from the List of Optional Subjects proposed by the unit	10
Lecturing subjects from the University List of Optional Subjects	1

No.	Code	Title of subject	Semester	Weekly fund of lecture hours		ECTS	Unit
				L	E		
1.	MS-204	Introduction to MATLAB and Its Application in Engineering Analyses	2	2	2	6	IZIIS
2.	MS-205	Project Planning and Management	2	2	2	6	IZIIS
3.	MS-206	Wood Structures	2	2	2	6	IZIIS
4.	MS-207	Masonry Structures	2	2	2	6	IZIIS
5.	MS-304	Geotechnical Earthquake Engineering	3	2	2	6	IZIIS
6.	MS-305	Fundamentals of Repair and Strengthening of Building Structures	3	2	2	6	IZIIS
7.	MS-306	Non-structural Elements	3	2	2	6	IZIIS
8.	MS-307	New Technologies of Design of Structures	3	2	2	6	IZIIS
9.	MS-308	Seismic Design of Dams	3	2	2	6	IZIIS
10.	MS-309	Design of Engineering Steel Structures	3	2	2	6	IZIIS
Total:				20	20	60	

Table 6.3. Overview of presence of compulsory and optional subjects in the study programme

Year	Number of compulsory subjects	Number of optional subjects	Total number of subjects
First year	7	3	10
Second year	5	2	7
Total	12	5	17
% presence	70.6%	29.4%	100%

Table 6.4. Overview of presence of compulsory and optional subjects given in percentage

Duration of studies (years)/total number of ECTS credits of the study programme	Total workload expressed through ECTS-credits		Workload for the compulsory subjects expressed through ECTS-credits		Workload for the optional subjects expressed through ECTS-credits	
	A Total number of ECTS-credits from lecturing subjects	A1 ECTS-credits from lecturing subjects in the study programme given in percentage	B Total number of ECTS-credits from compulsory lecturing subjects	B1 ECTS-credits from compulsory lecturing subjects in respect to the total number of ECTS-credits of the study programme given in percentage	C Total number of ECTS-credits from optional lecturing subjects	C1 ECTS-credits from optional lecturing subjects in respect to the total number of ECTS-credits from the study programme given in percentage
2 year 120	120	100%	90	75%	30	25%

7. List of teaching staff with data stated in Appendix 4

Table 7.1. List of persons promoted to teaching-scientific, scientific and teaching titles, in regular working relationship, with full working time at the unit where the study programme is being realized.

	Name and surname of lecturer Title and scientific field for which the lecturer is appointed Scientific field in which the lecturer earned doctoral degree Institution where the lecturer is in regular working relationship	Subjects that the lecturer teaches	Total number of subjects per semesters	
			Winter	Summer
1.	Prof. Dr. Veronika SHENDOVA Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, High-Rise Buildings, Engineering Materials. Lecturing subject related to the last permanent appointment: Engineering Materials. Bulletin no. 953 dated 01.12.2008. UKIM-IZIIS	1. Nonlinearity of Engineering Materials 2. Masonry Structures 3. Fundamentals of Repair and Strengthening of Building Structures	2	1
2.	Prof. Dr. Viktor HRISTOVSKI Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, Engineering Structures and Geotechnics. Lecturing subject related to the last permanent appointment: Finite Element Analysis. Bulletin no.972 dated 15.10.2009.	1. Dynamics of Structures 2. Finite Element Analysis 3. Seismic Design of Dams	2	1

	UKIM– IZIIS			
3.	Prof. Dr. Vlado MICOV Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering and Engineering Structures. Lecturing subject related to the last permanent appointment: Planning and Design of Transportation Systems and Other Infrastructure Systems in Seismic Areas. Bulletin no. 974 dated 16.11.2009. UKIM-IZIIS	1. Steel Structures 2. Bridges, Transportation and Infrastructure Systems 3. Design of Engineering Steel Structures	2	1
4.	Prof. Dr. Zoran RAKIĆEVIĆ Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, Experimental Mechanics, Control of Structures. Lecturing subject related to the last permanent appointment: Controlled Behaviour of Structures. Bulletin no. 1019 dated 15.11.2011. Decision adopted by the University Senate no. 02-88/75 dated 29.12.2011. UKIM-IZIIS	1. Steel Structures 2. Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures 3. Non-structural Elements 4. New Technologies of Design of Structures	3	1
5.	Prof. Dr. Roberta APOSTOLSKA Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, High Rise Buildings, Seismic Design. Lecturing subject related to the last permanent appointment: Seismic Design of RC, Steel and Masonry Structures. Bulletin no. 1061 dated 16.9.2013. Decision adopted by the University Senate no. 02-965/13 dated 28.10.2013. UKIM-IZIIS	1. Nonlinearity of Engineering Materials 2. Reinforced Concrete Structures 3. Fundamentals of Repair and Strengthening of Building Structures	2	1
6.	Prof. Dr. Violeta MIRČEVSKA Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering,	1. Finite Element Analysis 2. Geotechnical Earthquake Engineering 3. Seismic Design of Dams	3	

	Engineering Structures and Geotechnics. Lecturing subject related to the last permanent appointment: Dam Design. Bulletin no. 932 dated 14.12.2007. UKIM-IZIIS			
7.	Prof. Dr. Vlatko ŠEŠOV Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, Engineering Structures and Geotechnics. Lecturing subject related to the last permanent appointment: Dynamics of Soils and Foundations. Decision adopted by the University Senate no. .. Bulletin no. 953 dated 01.12.2008. UKIM-IZIIS	1. Dynamics of Soils and Foundations 2. Geotechnical Earthquake Engineering	1	1
8.	Prof. Dr. Dragi DOJČINOVSKI Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Engineering Seismology. Lecturing subject related to the last permanent appointment: Engineering Seismology. Bulletin no.1095 dated 2.3.2015. Decision adopted by the University Senate no. 02-472/13 dated 30.4.2015. UKIM-IZIIS	1. Engineering Seismology	1	
9.	Prof. Dr. Igor GJORGJIEV Full Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering. Lecturing subjects related to the last permanent appointment: Introduction to MATLAB and Its Application in Engineering Analyses, Analysis of Structures, Diagnosis and Monitoring of Conditions of Constructed Structures, Design and Analysis of Structures with Seismic Isolation and Passive Systems for Energy Dissipation. Bulletin no. 1237 dated 1.5.2021. UKIM-IZIIS	1. Introduction to MATLAB and Its Application in Engineering Analyses 2. Finite Element Analysis 3. Steel Structures 4. Design of Engineering Steel Structures	2	2
10.	Assoc. Prof. Dr. Kemal EDIP Associate Professor, Earthquake Engineering	1. Dynamics of Soils and Foundations 2. Geotechnical Earthquake Engineering 3. Project Planning and Management	1	2

	Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, Engineering Structures and Geotechnics. Lecturing subjects related to the last appointment: Geotechnical Engineering. Bulletin no. 1175 dated 31.08.2018. UKIM-IZIIS			
11.	Assoc. Prof. Dr. Aleksandra BOGDANOVIĆ Associate Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, Experimental Mechanics, Control of Structures. Lecturing subject related to the last appointment: Design and Analysis of Structures with Seismic Isolation and Passive Systems for Energy Dissipation. Bulletin no. 1205 dated 15.12.2019. UKIM-IZIIS	1. Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures 2. Non-structural Elements 3. New Technologies of Design of Structures	3	
12.	Assoc. Prof. Dr. Radmila ŠALIĆ MAKRESKA Associate Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Engineering Seismology. Lecturing subjects related to the last appointment: Seismic Hazard, Vulnerability and Risk. Bulletin no. 1209 dated 15.2.2020. UKIM-IZIIS	1. Fundamentals of Seismic Risk 2. Engineering Seismology 3. Project Planning and Management	2	1
13.	Assoc. Prof. Dr. Marta STOJMANOVSKA Associate Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Engineering Seismology, Structural Engineering. Lecturing subjects related to the last appointment: Reliability of Structures. Bulletin no. 1218 dated 1.7.2020. UKIM-IZIIS	1. Engineering Seismology 2. Wood Structures	1	1
14.	Assoc. Prof. Dr. Julijana BOJADJIEVA Associate Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering,	1. Dynamics of Soils and Foundations 2. Geotechnical Earthquake Engineering	1	1

	Engineering Structures and Geotechnics. Lecturing subject related to the last appointment: Dynamics of Soils and Foundations. Bulletin no. 1221 dated 1.9.2020. UKIM-IZIIS			
15.	Assoc. Prof. Dr. Marija VITANOVA Associate Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering. Lecturing subject related to the last appointment: Planning and Design of Transportation Systems and Other Infrastructure Systems in Seismic Regions. Bulletin no. 1243 dated 15.8.2021. UKIM-IZIIS	1. Bridges, Transportation and Infrastructure Systems. 2. Design of Engineering Steel Structures 3. Fundamentals of Seismic Risk	3	
16.	Assist. Prof. Dr. Goran JEKIĆ Assistant Professor, Earthquake Engineering Wider teaching-scientific field: Earthquake Engineering, Structural Engineering, High Rise Buildings. Lecturing subjects related to the last appointment: Dynamics of Structures, Fundamentals of Earthquake Engineering and Engineering Seismology, Design According to Eurocode 8, General Principles of Design of Structures. Bulletin no. 1167 dated 16.4.2018. UKIM-IZIIS	1. Dynamics of Structures 2. Reinforced Concrete Structures 3. Introduction to MATLAB and Its Application in Engineering Analyses 4. Masonry Structures	3	1

8. Data on the premises planned for realization of the study programme – Earthquake Engineering, organized by the Institute of Earthquake Engineering and Engineering Seismology

Table 8.1. List and area of premises in the higher education institution that will be used for the realization of the study programme

	Type and purpose of the premises	Number	Number of seats	Area (m^2)
1.	Classroom	2	25	30
2.	Classroom	1	25	20
3.	Space for individual learning	1	15	50
4.	Hall for workshops	1	20	50
Total				150

9. List of equipment planned for realization of the study programme – Earthquake Engineering, Institute of Earthquake Engineering and Engineering Seismology

Table 9.1 List of equipment and teaching tools for the performance of the activity corresponding to the norms and standards for performance of higher education activity

	Equipment and teaching tools	Type	Purpose	Number
1.	Personal computer	DELL Optiplex 3060		9
2.	Personal computer	DELL Optiplex 7090 MT		12
3.	Personal computer	DELL 3080 SF		9
4.	Personal computer	DELL Optiplex 9010		1
5.	Server	DELL PowerEdge T140		1
6.	Server	DELL PowerEdge T310		1
7.	Server	DELL PowerEdge T330		1
8.	Server	DELL PowerEdge T420		1
9.	Laptop	DELL		18
10.	Personal computer	DELL Optiplex 5090		7
11	Smart board	EPSON BrightLink 1485Fi 1080p 3LCD Interactive Laser Display		1

Table 9.2. Specific equipment of laboratories and characteristics of the equipment

Specific equipment of laboratories	**No.**	**Characteristics**
Seismic shaking table	2	5 DOF 5 x 5 m MTS shake table 1DOF 1.6 x 2.0m MTS shake table
System for quasi-static tests	3	Capacity: +/-2500 kN (total) with maximum displacement of +/-20cm and +/-30cm.

Equipment for ambient vibrations	1	Kinemetrics SC-1 Signal Conditioner NI DAQPad-6015 Portable High-Performance DAQ NI CDAQ-9178 chassis with 3 NI-9234 modules PCB ICP Seismic Accelerometer model 393B12
Equipment for triaxial tests	1	AUTOTRIAX2, possibility for static and dynamic tests, cyclic loading with ±5 kN, to 25kN shear force, cyclic load with frequency capacity of 0-70Hz, compatibility with ASTM and BS standards. Dimensions of cylinder specimens: diameter 70mm, height 140mm.
Equipment for shear tests (dynamic direct shear apparatus)(DSSA)	1	Possibility for definition of the dynamic characteristics of different soil materials and liquefaction potential of sands
Laminar container		Possibility for realistic simulation of dynamic behaviour of soil. Dimensions: 2.0 x 1.0 x 1.5 m, made from aluminium material with steel base.
Georadar		AKULA -9000C – Multi-channel georadar (up to 16 channels) compatible with central frequency of 10- 4000MHz GCB-300 – Ground coupled antenna of 307 MHz central frequency for investigations down to depth of 8 m. GCB-1000 – Ground coupled antenna of 1000 MHz central frequency for investigations down to depth of 1.5 GEKKO-60-SR – Airborne antenna of 65 MHz central frequency for investigations down to depth of 30-50 m
ABM tralog	1	
Multi-channel digital system for active and passive seismic surveys	1	SoilSpy Rosina, 33 channel digital seismograph, MOHO, Italy
Tromino	5	TROMINO®
Digital accelerometers	51	GURALP CMG-5TD (13) GURALP CMG-5TCDE (4) Kinemetrics EpiSensor ES-T (20) Terra-Tech Accelerometer SSA-320 (6) SYSCOM MS2002 + (8)
Recorders	38	Kinemetrics K-2 recorder (4) Kinemetrics Granite recorder (16) Kinemetrics Quake Data recorder (QDR) (4) GeoSIG GNC-CR12 recorder (6) SYSCOM MR2002-SM AC 16 recorder (8)
Scanner for reinforcement - Profometer	2	Proceq – PROFOMETER 5 (V2.3.0, 55.6031) Proceq – PROFOMETER 6 (HW C1)
Equipment for measurement of compressive strength of concrete, light weight concrete, gypsum, fresh concrete and mortar	6	Proceq – Digi Schmidt (4.5, 88-3101, ND 4739) Proceq – Digi Schmidt (4.7, 92-5064, ND 6713) Proceq – Silver Schmidt (SH01-007-0409) Proceq – Test Anvil E04/053 Proceq – Concrete Pendulum Hammer (PM 6515) Proceq – Test anvil (9.009)

Equipment for definition of uniformity and quality of concrete, presence of defects, fine cracks, cracks and voids, modulus of elasticity and strength	1	Proceq – Tico Ultrasonic (22.2049)
Instrument for field definition of shear force in undrained soils	1	GEONOR-H-60
Two-component machine for testing of rubber bearings	1	
Equipment for forced vibrations	2	GSV-101, Geotronix, USA; Капацитет: +/- 24.5kN;
IP cameras (network)	6	Dahua SD49225T- HN 2MP 25x Starlight IR PTZ Network Camera 1/2.8” 2Megapixel STARVIS™ CMOS Powerful 25x optical zoom Starlight technology Max.25/30fps@1080P IVS
		Support PoE+ IR distance up to 100m IP66
Laser gauges	2	
Load cells	4	F317UFR0KN, NovaTech, capacity 250kN
Systems for data acquisition from sensors	3	NI DAQPad-6015; Input type: 16 USB analogue inputs up to 200 kS/s, Resolution: 16-bit, Input range: ±0,05 V до ± 10.0 V.
Sensors (61 for measurement of accelerations, LVDT 39, LP 15 – for measurement of displacements)	115	Accelerometers-PCB ICP Model 393B12 LP- National Oiwell, HSI 1850-015, Macro-epsilon WDS-500-P60-SR-U, LDVT- Macro Sensors- DC 750-250
Integrated system for 3D reconnaissance of terrain and structures by an unmanned aerial vehicle - drone	1	3D mapping of terrain and structures by a drone
IBIS FS Geo Radar	1	Static and dynamic monitoring of bridges, etc.
Mobile vibration generator (exciter) ELECTRO- SEIS® Model APS400	1	Dynamic tests on full scale structures by application/generation of horizontal and vertical vibrations; calibration of accelerometers.
Equipped transport van	1	A mobile laboratory
Remaining equipment	8	Portable tilt meter Mechanical extensometer for measurement of variations of displacements during loading Apparatus for hydraulic loading of masonry, the so called “flat jack” method Wireless accelerometers 3D with data logging Drone with a high resolution camera

10. Information on number of students (enrolled for the first time) in the study programme in the period starting with the last accreditation

Table 10.1 Overview of number of students enrolled (for the first time) in the study programme in the period since the last accreditation and number of students for whom accreditation is requested

Academic year		Number of students enrolled in the first year
1.	2018/2019	5
2.	2019/2020	10
3.	2020/2021	8
4.	2021/2022	6
5.	2022/2023	6
Total number of enrolled students		35
Number of students for whom accreditation has been awarded		15/academic year
Number of students for whom new re-accreditation is requested		15/academic year

11. Information about provided compulsory and additional literature

The anticipated compulsory and additional literature (given in the subject curricula – Appendix 3) will be provided by the lecturers prior to the beginning of the study programmes (in the library and by the lecturers per individual subjects), in printed and electronic form. The literature is in English and Macedonian language. Open learning platforms will be used to provide an effective virtual environment for the realization of the educational process, as well as an information for access to “open access” journals and other scientific and professional journals.

12. Information about the web-site

All information about the study programme will be available on the web-sites of IZIIS

www.iziis.ukim.edu.mk and the University https://www.ukim.edu.mk/ .

13. Activities and mechanism through which the quality of the lecturing process is improved and maintained

To improve and maintain the quality and the quality control within the frames of the study programme, there will be used methods of continuous evaluation, self-evaluation and the system for evaluation of the quality of the teaching staff in accordance with the Law on Higher Education (Official Gazette of R.N. Macedonia 82/18) and the bylaw acts as well as the already established mechanisms of evaluation within the frames of UKIM.

Providing and maintaining quality and quality control of the study programme will be carried out in accordance with the activities and mechanisms that are carried out for all study programmes and refer to all participants in the lecturing process at IZIIS in Skopje.

The stated activities and mechanisms of self-evaluation refer to:

- Development of teaching contents;
- Realization of the lecturing process;
- Evaluation of students;
- Elaboration of doctoral dissertation

Evaluation of each subject and the study programme in general by the students will be realized permanently and will be taken into account during the evaluation and development of the study programme.

14. Results from the performed self-evaluation in accordance with the Guidelines on the Common Basis for Evaluation and Evaluation Procedures of Universities adopted by the Agency for Evaluation of Higher Education in the Republic of Macedonia and the Inter-university Conference of the Republic of Macedonia (Skopje – Bitola, September 2002)

Self-evaluation is a legal obligation and is realized pursuant to the Law on Higher Education (Official Gazette of the R. Macedonia no.: 35/08, 103/08, 26/09, 83/09, 99/09, 115/10, 17/11, 51/11, 123/12, 15/13, 24/13, 57/13, 41/14, 116/14, 130/14, 10/15, 20/15,98/15, 145/15, 154/15, 30/16, 120/16, 127/16, 82/18) and the bylaw acts. The final objective of self-evaluation is assessment of the quality of the higher education activity and getting insight into the comparability and conformity of the study programmes with the study programmes of related institutions as well as providing instructions for improvement of the quality and efficiency of the lecturing-educational process, providing synergy between the teaching-educational and scientific-research activity and permanent improvement and advancement of the quality of the academic/research staff.

The Institute of Earthquake Engineering and Engineering Seismology – IZIIS, Skopje has a 57 year long reputation as a renowned scientific-research and academic institution. Since its foundation until today, its activities have continuously been directed, and will be directed in future, toward reduction of disaster risks, protection of population and goods, reduction of physical and economic losses and protection of socio-economic systems against earthquakes and other natural hazards. In this context, the goal of self-evaluation is realistic definition of the conditions as well as the strong and weak points of the Institute and proposal of instructions for possible corrections and further improvement of the quality of the realization of the lecturing process.

Members of the self-evaluation commission are:

1. Prof. Dr. Roberta Apostolska - President
2. Prof. Dr. Veronika Šendova - member
3. Assoc. Prof. Dr. Kemal Edip - member
4. Assoc. Prof. Dr. Aleksandra Bogdanović -member
5. Asst. Prof. Dr. Goran Jekić - member
6. Asst. M. Sc. Angela Poposka, student
7. M. Sc. Elena Delova, student

Following the performed SWOT analysis per individual segments of the self-evaluation, the conclusion of the report (IZIIS 2020-64) contains a summary of the defined strong and weak points of IZIIS and the academic staff. Consequently, to round off the self-evaluation process, the Commission proposed to the Scientific Council of the Institute measures for continuation and strengthening of the Institute's commitment to its core activity and promotion of its scientific, educational and professional achievements.

Presented further are some of the results of the self-evaluation procedure effectuated in December 2020.

Advantages – strong points (S):

- A leading institution in the country and a recognized partner in regional and international scientific-research activities in the field.
- 55-year long tradition and recognition on the national and regional education market in the domain of technical sciences, earthquake engineering and engineering seismology.
- A large number of signed memorandums for cooperation with educational and related institutions from abroad.
- High quality and functional study and subject curricula of the second and third cycle of studies in Macedonian and English language, continuously modernized and harmonized with the latest trends and needs of the society and the industry, being compatible, at the same time, with the international standards.
- High level of specialization and close connection of the study programmes with the profile of students, particularly those finishing the third cycle of studies.
- Corresponding methods and specific forms of realization of the lecturing process and checking knowledge of students, including experimental teaching process and direct participation in scientific-research projects.
- Competent teaching-scientific staff, active in the scientific-research activity, present at professional and scientific meetings in the country and abroad, highly rated in student polls.
- Excellent cooperation between science and industry and application of the results from the scientific research in industry.
- Possibilities for award of fellowships to students of post-graduate studies from own resources and use of mobility programmes within ERASMUS+.
- Excellent spatial-technical and material conditions, a library with a considerable library fund in the field, openness of the specialized laboratories, modern interactive system for presentations, devices for support of the most topical technology of wireless access, equipment that enables remote monitoring of experiments.
- Involvement in the global Eduroam network that enables a universal way of connecting employees, students and visitors from any institution within the frames of the network.
- Professional legal and administrative service.

Weaknesses, weak points (W)

- Retirement of a large number of lecturers in the reported period and “ageing” of the teaching staff.
- Insufficient number of mentors in some closer fields due to the mentorship criteria for the third cycle of studies.
- Insufficient number of visiting professors in the evaluated period.
- Insufficient use of existing memorandums for cooperation regarding specific activities (joint projects, investigations, studies, joint schools, trainings, courses, etc., more intensive mobility of employees and students).
- Insufficient coverage referring to mentor teaching with traditional form of lectures, practical and field teaching.

- Decreased interest in enrolment of students in the second cycle of studies in the evaluated period.
- Limited access of the Institute and the University to corresponding bases of scientific and professional papers.
- Insufficient individual involvement of students in current projects, practical and field teaching.
- A small number of textbooks published by the teaching staff, lack of permanent procurement of more sophisticated equipment and access to the latest scientific-professional literature.
- Insufficient information-communication coverage of the students' service.

Possibilities (O)

- Deepening of the existing and initiation of new cooperation with renowned foreign universities through specific mutual activities.
- Increasing the use of possibilities for coordination and/or participation in projects financed by EU, USAID and other international sources and funds.
- Use of information technology equipment for organization of traditional on-line lectures within the frames of the mentor teaching.
- Setting up and putting into operation an alumni network for more intensive cooperation with its members, particularly with the participants of international courses organized by the Institute for the purpose of improving international cooperation.
- Further equipping of the specialized laboratories from own resources obtained from applicative activity.

Limitations, threats (T)

- A small number of employments of associate and professional staff in continuity.
- Frequent changes in laws that are not based on a long term strategy for development of the higher education.
- Limited access of the Institute and the University to corresponding bases of scientific and professional papers.
- Inefficient financial and logistic support of relevant state institutions during application for and following the award of grants from European financial instruments.
- Insufficient financial support of the Ministry of Education and Science to national scientific-research projects and programmes.
- Absence of alternative possibilities for financing the study at the third cycle of studies.
- Delay in approval of financial plans, approval of a smaller amount of plans in respect to the required ones or non-approval of a plan at all in respect to the required ones, which complicates the financial operation of the Institute and is reflected on its entire functioning.

Following the performed SWOT analysis and consequently, to round off the self-evaluation process, the Commission has proposed measures for continuation and deepening of the commitment of the Institute to its main activity and promotion of its scientific and professional achievements, as a recommendation to the Scientific Council of the Institute:

- Overcoming of the lack of professor, associate and administrative staff that, following the forthcoming change of generations in the next years, may affect further development of the

Institute, through maintenance of intensive communication and cooperation with competent ministries in order to obtain consent for employment of staff.

- Re-design and further improvement of existing and possible opening of new study programmes in the next re-accreditation in accordance with the needs of the society and the construction sector in the country and the region.
- Increase of the number of published teaching tools by the teaching staff.
- Providing access to scientific-professional literature and journals in the field.
- Expanding the international dimension of the study programmes through intensification of the cooperation with foreign universities and creation of possibilities for joint study programmes.
- Creation and development of alumni association by prior consulting the practical experience of our international partner institutions.
- Improvement of the cooperation with the business community, the governmental institutions and the non-governmental sector in respect to the scientific-research and teaching activity.

The complete report is available on the web site of IZIIS, i.e., the following link:

Self-evaluation report – IZIIS Report 2020-64

Does formal education and research experience of lecturers correspond with the specificity of the study programme, i.e., the profile and the qualification of the teaching-scientific staff?

Table 15.1. Summary overview of number of lecturers per fields engaged in the realization of the study programme

No.	Scientific field	Closer scientific, artistic, i.e., professional field	Lecturer of foreign language	Lecturers	Senior lecturer	Assistant – doctoral student	Asst. Professor	Assoc. Prof.	Full Prof.	Scientific title – researcher	Emeritus	Other	**Total**
1.	207. Civil Engineer-ing and Water Power Economy	20703. Earthquake Engineering					1	6	9				16
Total							**1**	**6**	**9**				**16**

15. Compliance of the structure and contents of the cycle of studies with the general and specific descriptors

General descriptors		
Specific descriptor	Description	Subjects through which the characteristics indicated by the general descriptors are achieved
Knowledge and understanding	✓ Shows knowledge and understanding in the sphere of technical and technological sciences, in the earthquake engineering domain that is upgraded based on previous three-year, four-year or five-year high education – the first	The general descriptors are achieved through the contents of all subjects and activities anticipated in the study programme.

	cycle, including knowledge in the domain of theoretical, practical, conceptual, comparative and critical perspectives of the earthquake engineering domain. ✓ Understanding of all domains of earthquake engineering, civil engineering and related technical sciences and knowledge of current issues connected with scientific research and new sources of knowledge. ✓ Shows knowledge and understanding of different theories, methodologies.	
Application of knowledge and understanding	✓ Can apply knowledge in a way that shows a professional approach to the work and the profession of master of science in the earthquake engineering domain. ✓ Shows competence in identification, analysis and solving of problems. ✓ Ability to find out and support arguments in the frames of earthquake engineering. ✓ Ability for critical, independent and creative solving of problems with a certain originality, in new or unknown environments and in multi-disciplinary context, connected with earthquake engineering, civil engineering and other related technical sciences.	General descriptors are achieved through the contents of all subjects and activities anticipated with the study programme
Ability to assess	✓ Ability to collect, analyse, assess and present information, ideas and concepts from relevant data. ✓ Ability to synthesize knowledge and make corresponding assessment taking into account personal, social, scientific and ethical aspects. ✓ Ability to assess theoretical and practical problems, provide explanation about reasons and select a corresponding solution. ✓ Ability to manage complex problems, systematically and creatively, for sound assessment even in the case of incomplete and limited data, including personal, social and ethical responsibilities in applying the acquired knowledge and evaluation.	General descriptors are achieved through the contents of all subjects and activities anticipated in the study programme.
Communication skills	✓ Ability to communicate and discuss with both professional and non-professional public about information, ideas, problems and solutions when the criteria for decision making and the scope of the task are clearly defined. ✓ Taking significant responsibility about collective results; leading and initiating activities.	General descriptors are achieved through the contents of all subjects and activities anticipated in the study programme

	✓ Ability for independent participation, with a professional approach, in specific, scientific and inter-disciplinary discussions.	
Learning skills	✓ Ability to recognize personal needs for further knowledge and ability for independent action while acquiring new knowledge and skills in social frames. ✓ Ability to take responsibility and further professional development and advancement.	The general descriptors are achieved through the contents of all the subjects anticipated in the study programme.

Specific descriptors		
Specific descriptor	Description	Subjects through which the characteristics indicated by the general descriptors are achieved
Knowledge and understanding	✓ Enabled is education of candidates in the domain of earthquake engineering, including exploration of modern methods of analysis, design and evaluation of structural systems exposed to the effect of vertical and seismic loads as well as other specific types of static and dynamic loads. ✓ Acquired is knowledge of a wide spectrum of specific subdomains of earthquake engineering and seismic design. ✓ Acquired is knowledge in the field of modern numerical methods for analysis, expertise, design and evaluation of seismic resistance of structures as well as adequate basic education in the earthquake engineering domain for structures of the type of buildings with different structural systems (reinforced concrete, steel, masonry, mixed, etc.) as well as a large number of complex engineering structures of different categories (bridges, dams, special structures, infrastructure systems, etc.). ✓ Acquired is knowledge in the field of reduction and management of risks pertaining to natural disasters, particularly the seismic risk. ✓ Acquired is knowledge in the domain of dynamics of soils and foundations.	The specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme
Application of knowledge and understanding	✓ Production of creative staff that will be able to continue their higher education up to acquiring the academic title of doctor of technical sciences. ✓ Training of candidates for creative and developmental design activity in the earthquake engineering domain.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme

	✓ Training of candidates for realization of complex design tasks in the domain of design and seismic stability and safety of different types of engineering structures. ✓ Training of staff for solving complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics. ✓ Training of staff for realization of activities for reduction of risks pertaining to natural disasters. ✓ Training of staff for repair and strengthening of buildings, engineering and special structures up to providing the required level of seismic safety.	
Ability to assess	✓ Ability of staff to continue their high education until they acquire the academic title of doctor of technical sciences. ✓ Ability for creative and developmental design activity in the earthquake engineering domain. ✓ Ability for realization of complex design tasks in the field of design and seismic stability and safety of different types of engineering structures. ✓ Ability to solve complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics. ✓ Ability to manage activities for reduction of risks pertaining to natural disasters. ✓ Ability to perform activities for repair and strengthening of buildings, engineering and special structures until achieving the required level of seismic safety.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme.
Communication skills	✓ Shows ability to present, in a simple and clear way, information related to his/her professional activity, orally and in writhing, in accordance with the cultural level of the collocutor. ✓ Shows ability to use his/her knowledge and skills, professionally communicate with colleagues and collaborators, work efficiently as a team member and coordinate activities.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme
Learning skills	✓ Demonstrates developed learning skills (concentration, reading, listening, memorizing, use of time) that enable him/her to continue the studies in an autonomous way for the purpose of educating himself/herself in specific professional fields for life.	The specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme.

	✓ Ability to consult all kinds of scientific literature for complete use in order to apply the results for practical purposes. ✓ Ability to use effective strategies for own education, including also the use of the computer technology. Visits to professional meetings.	

16. Compliance of the theoretical and practical lecturing process with the objectives of the study programme

Education of corresponding staff in the earthquake engineering domain represents an essential step for successful realization of the integral national strategy for reduction of consequences of earthquakes and other natural and technological hazards. The structure of the study programme, the capacity of the teaching staff as well as the material-technical and spatial conditions, explained in details in this report, enable the realization of the set goals. The students acquire fundamental theoretical knowledge, but also an opportunity to access the latest knowledge in the field, as well as the possibility to attend practical lectures through participation in realization of experimental investigations in the IZIIS laboratories and on field.

17. Compliance of the study programme with the unique European sphere of higher education and comparability with programmes of European higher education institutions

The study programme in Earthquake Engineering within the second cycle of studies complies with the Bologna declaration and the ECTS rules and is carried out by the Institute of Earthquake Engineering and Engineering Seismology – IZIIS at the Ss. Cyril and Methodius University. It has been accredited twice in continuity by the Higher Education Accreditation and Evaluation Board (by decisions no. 13-262/7, 13-262/8 and 13-262/9 dated 5.1.2013; 13-7991/1, 13-7993/1 and 19-7994/1 dated 10.04.2013 ;1409-152/8 dated 6.6.2018; 1409-152/7 6.6.2018; 1409-152/4 10.5.2018).

The study programme is unique in the region and enables education of staff that will further contribute to high quality and safe living not only in Macedonia but also beyond our country, by which it will not only have national, but also regional impact. It has been harmonized with the most recent world trends in earthquake engineering and is comparable to similar programmes of foreign higher education institutions, particularly in the frames of the European educational sphere.

The study programme has the following characteristics:

1. Latest scientific and professional knowledge in the earthquake engineering field.
2. Harmonization (continuity) with the study programme in earthquake engineering of the second cycle of studies.
3. Harmonization with at least three accredited programmeas of foreign higher education institutions of which two are higher education institutions within the European educational system.

https://www.iusspavia.it/en/node/23

https://www.imperial.ac.uk/study/pg/civil-engineering/earthquake-engineering/

https://www.postgrad.com/university-of-bristol-earth-sciences-earthquake-engineering-and-infrastructure-resilience/course/#collapse-489875

4. Formally and structurally, it is in compliance with the requirements pursuant to the Rulebook on Compulsory Components that Study Programmes of the First, the Second and the Third Cycle of studies Should Possess (Official Gazette of the Republic of Macedonia no. 25/11) and the remaining defined standards specific for the accreditation.

5. Compliance with the European standards in respect to the requirements referring to enrolment, time duration of the studies, conditions for transition to the next year, obtaining of diploma as well as mode of studying and comparability of the programme.

DOCUMENTS

1. Decision on adoption of the study programme made by the Teaching-Scientific Council/Scientific Council

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
Универзитет „Св. Кирил и Методиј“ во Скопје
Институт за земјотресно инженерство и
инженерска сеизмологија (ИЗИИС) - Скопје

ул. Тодор Александров бр. 165, П.Фах 101,
1000 Скопје, Република Северна Македонија

www.iziis.ukim.edu.mk

Дата: 22.11.2022
Број: 09-1690/1

Врз основа на член 110 од Законот за високото образование (Службен весник на РСМ бр. 82/18), на член 47 од Статутот на Институтот за земјотресно инженерство и инженерска сеизмологија-Скопје, Одлуката за именување членови на Комисија за подготвување елаборат за студиска програма по земјотресно инженерство (бр. 09-1077/1 од 6.7.2022година) како и врз основа на поднесениот предлог-елаборат за акредитација на студиска програма од втор циклус на академски студии по земјотресно инженерство од страна на Комисијата за подготвување на елаборатот, Научниот совет на Институтот за земјотресно инженерство и инженерска сеизмологија-Скопје, на 143 седницата од 15.11.2022 година, ја донесе следната:

О Д Л У К А

за усвојување на студиска програма за втор циклус по земјотресно инженерство

Член 1

Се усвојува Елаборатот на студиската програма по земјотресно инженерство од втор циклус на академски студии во рамките на Институтот за земјотресно инженерство и инженерска сеизмологија-Скопје.

Член 2

Наставата од студиската програма земјотресно инженерство ќе започне да се изведува по добивањето согласност од Одборот за акредитација на високото образование и по добивањето согласност за исполнување на условите за почеток со работа на студиската програма од страна на Агенцијата за квалитет на високото образование на Република Северна Македонија.

Член 3

Одлуката да се достави до Ректорската управа и до Универзитетскиот сенат на Универзитет „Св. Кирил и Методиј“ во Скопје заради усвојување на студиската програма по земјотресно инженерство.

Член 4

Составен дел на оваа Одлука е елаборатот на студиската програма по земјотресно инженерство.

Член 5

Оваа Одлука влегува во сила со денот на нејзиното донесување.

Директор

Скопје, 15.11.2022

Проф. д-р Златко Шешов

Доставено до
- Архивата на ИЗИИС
- Ректорска управа/Универзитетскиот сенат

Тел: +389(2)3107701 Факс: +389(2)3112163 institut@iziis.ukim.edu.mk

2. Decision on adoption of the study programme made by the University Senate

Бр. 02-1157/5
27.12.2022 година
Скопје

Врз основа на член 94, став 1, точка 3 од Законот за високото образование (Службен весник на Република Македонија бр. 82/2018 и Службен весник на Република Северна Македонија бр. 178/2021) и член 157, став 1, точка 8 од Статутот на Универзитетот „Св. Кирил и Методиј“ во Скопје (Универзитетски гласник бр. 425/2019), по предлог на Научниот совет на **Институтот за земјотресно инженерство и инженерска сеизмологија**, Универзитетскиот сенат на Универзитетот „Св. Кирил и Методиј“ во Скопје, на 26. седница одржана на 27.12.2022 година, донесе

О Д Л У К А
за усвојување на Елаборатот за студиската програма од втор циклус, двегодишни студии за Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија

Член 1

Се усвојува по Елаборатот за студиската програма од втор циклус, двегодишни студии за **Земјотресно инженерство** на **Институтот за земјотресно инженерство и инженерска сеизмологија.**

Член 2

Наставата од **студиската програма од *втор циклус, двегодишни студии* по Земјотресно инженерство,** ќе започне да се изведува по добивањето согласност од Одборот за акредитација на високото образование и по добивањето согласност за исполнување на условите за почеток со работа на студиската програма од страна на Агенцијата за квалитет на високото образование на Република Северна Македонија.

Член 3

Одлуката се доставува до предлагачот и до Одборот за акредитација на високото образование на натамошна постапка за акредитација на студиската програма.

Член 4

Оваа Одлука стапува во сила со нејзиното донесување и ќе се објави во *Универзитетски гласник.*

Претседател на Универзитетскиот сенат

Проф. д-р Сашо Ленчевски

3. Opinion of the Board for Cooperation and Public Trust

Врз основа на член 122 од Законот за високото образование (Службен весник на РМ бр.82/18), Одборот за соработка и доверба со јавноста на Институтот за земјотресно инженерство и инженерска сеизмологија – ИЗИИС при Универзитетот Св. Кирил и Методиј, на својата седница одржана на ден 15.11.2022 година го донесе следново:

М И С Л Е Њ Е

Се дава позитивно мислење за Елаборатот за Студиската програма Земјотресно инженерство на втор циклус на академски студии на Институтот за земјотресно инженерство и инженерска сеизмологија – ИЗИИС

О б р а з л о ж е н и е

Одборот за соработка и доверба со јавноста на Институтот за земјотресно инженерство и инженерска сеизмологија – ИЗИИС го разгледа Елаборатот на Студиската програма Земјотресно инженерство и донесе заклучок дека постапката за усвојување и акредитација на предложената Студиска програма Земјотресно инженерство може да продолжи.

Поради наведеното Одборот за соработка и доверба со јавноста на Институтот за земјотресно инженерство и инженерска сеизмологија – ИЗИИС го даде своето позитивно мислење за Елаборатот за Студиската програма Земјотресно инженерство на втор циклус на академски студии на Институтот за земјотресно инженерство и инженерска сеизмологија – ИЗИИС.

Скопје, 15.11.2022

Одбор за соработка со јавноста

Проф. Д-р Драги Дојчиновски, Претседател

Доставено до
- Архивот на ИЗИИС
- Ректорска управа/Универзитетски Сенат

4. Lecturer's statement providing consent for participation in the lecturing process per individual subjects of the study programme

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/1
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

ИЗЈАВА

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно инженерство

Јас Влатко Шешов, избран во звање редовен професор и вработен во ИЗИИС , Универзитет Св Кирил и Методиј во Скопје давам согласност за учество во изведување на настава од Студиската програма Земјотресно инженерство на ИЗИИС, по наставните предмети:

1. Динамика на почви и фундаменти
2. Геотехничко земјотресно инженерство

Скопје, 09-11-2022

Подносител на изјава

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Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

И З Ј А В А

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас Зоран Ракиќевиќ, избран во звање редовен професор и вработен во Институт за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) – Скопје, на Универзитет „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма земјотресно инженерство, на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС)-Скопје, по наставните предмети:

1. Основи на експериментална механика, мониторинг и испитување на конструкции.
2. Челични конструкции.
3. Неконструктивни елементи.
4. Нови технологии за проектирање на конструкции

Скопје, 09.11.2022

Подносител на изјава

Проф. д-р Зоран Ракиќевиќ

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/3
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

ИЗЈАВА

за согласност за учество во изведување настава по одредени предмети од студиската програма на **втор циклус студии на студиската програма**

Земјотресно инженерство

Јас, **Роберта Апостолска**, избрана во звање редовен професор и вработена во Институтот за земјотресно инженерство и инженерска сеизмологија на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС)-Скопје, по наставните предмети:

1. МС – 104 Нелинеарност кај инженерски материјали
2. МС - 201 Армиранобетонски конструкции
3. МС- 305 Основи на санација и зајакнување на конструкции на згради

Скопје, 11.11.2022

Подносител на изјава

Проф. д-р Роберта Апостолска

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/4
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

И З Ј А В А

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас Вероника Шендова, избрана во звање редовен професор и вработена во Институтот за земјотресно инженерство и инженерска сеизмологија на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС)-Скопје, по наставните предмети:

1. Нелинеарност кај инженерски материјали (МС-104)
2. Ѕидани конструкции (МС-207)
3. Основи на санација и зајакнување на конструкции на згради (МС-305)

Скопје, 31.10.2022

Подносител на изјава

В. Шендова

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/5
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

ИЗЈАВА

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно инженерство

Јас Владо Мицов, избран во звање редовен професор и вработен во/на Институтот за земјотресно инженерство и инженерска сеизмологија на Универзитет „Св. Кирил и Методиј" во Скопје давам согласност за учество во изведување на настава од Студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС)-Скопје, по наставните предмети:

1. Мостови, транспортни и инфраструктурни системи
2. Проектирање на инженерски челични конструкции
3. Челични конструкции

Скопје, 10.11.2022

Подносител на изјава

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РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/6
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

И З Ј А В А

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно Инженерство

Јас _Виолета Мирчевска_, избран во звање редовен професор и вработен во/на _ Институт за земјотресно инженерство и инженерска сеизмологија - ИЗИИС на Универзитет Кирил и Методија давам согласност за учество во изведување на настава од Студиската програма втор циклус_на Институтот за земјотресно инженерство и инженерска сеизмологија- ИЗИИС, по наставните предмети:

1. Анализа со конечни елементи
2. Геотехничко земјотресно инженерство
3. Асеизмичко проектирање на брани

Скопје, 28.10..2022

Подносител на изјава

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

ИЗЈАВА

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно инженерство

Јас, Виктор Христовски, избран во звање редовен професор и вработен во Институтот за земјотресно инженерство и инженерска сеизмологија на Универзитет „Св. Кирил и Методиј“ во Скопје давам согласност за учество во изведување на настава од студиската програма на втор циклус студии по Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (УКИМ-ИЗИИС), Скопје, по наставните предмети:

1. Динамика на конструкции
2. Анализа со конечни елементи
3. Асеизмичко проектирање на брани

Скопје, 8.11.2022

Подносител на изјавата

Виктор Христовски

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/8
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

И З Ј А В А

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно Инженерство

Јас Драги Дојчиновски, избран во звање редовен професор и вработен на Институтот за Земјотресно Инженерство и Инженерска Сеизмологија на Универзитет Св. „Кирил и Методиј" давам согласност за учество во изведување на настава од Студиската програма Земјотресно Инженерство на Институтот за Земјотресно Инженерство и Инженерска Сеизмологија на Универзитет Св. „Кирил и Методиј", по наставните предмети:

1. Инжинерска Сеизмологија

Скопје, 28.10.2022

Подносител на изјава

Драги Дојчиновски

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/9
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

ИЗЈАВА

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по Земјотресно Инженерство

Јас Игор Ѓорѓиев, избран во звање редовен професор и вработен на Институтот за Земјотресно Инженерство и Инженерска Сеизмологија на Универзитет Св. „Кирил и Методиј„ давам согласност за учество во изведување на настава од Студиската програма Земјотресно Инженерство на Институтот за Земјотресно Инженерство и Инженерска Сеизмологија на Универзитет Св. „Кирил и Методиј„, по наставните предмети:

1. Вовед во MATLAB и негова примена во инженерски анализи
2. Анализа со конечни елементи
3. Челични конструкции
4. Проектирање на инженерски челични конструкции

Скопје, 14.10.2022

Подносител на изјава

Игор Ѓорѓиев

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/10
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

И З Ј А В А

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас **Кемал Едип**, избран во звање вонреден професор и вработен на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје, по наставните предмети:

1. Динамика на почви и фундаменти
2. Земјотресно геотехничко инженерство

Скопје, 04.10.2022

Подносител на изјава

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

И З Ј А В А

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас Александра Богдановиќ, избрана во звање вонреден професор и вработена во Институтот за земјотресно инженерство и инженерска сеизмологија на Универзитетот „Св. Кирил и Методиј“ Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС)-Скопје, по наставните предмети:

1. Основи на експериментална механика, мониторинг и испитување на конструкции.
2. Неконструктивни елементи
3. Нови технологии за проектирање на конструкции

Скопје, 25.10.2022

Подносител на изјава

Богдановиќ

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-822/12.
29.05 2023 год.
СКОПЈЕ

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

ИЗЈАВА

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас **Радмила Шалиќ Макреска**, избрана во звање вонреден професор и вработена на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје, по наставните предмети:

1. Основи на сеизмички ризик
2. Инженерска сеизмологија
3. Планирање и управување со проекти

Скопје, 27.10.2022

Подносител на изјава

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

И З Ј А В А

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по земјотресно инженерство

Јас, **Марта Стојмановска**, избран во звање вонреден професор и вработен во Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) на Универзитет Св. Кирил и Методиј во Скопје, давам согласност за учество во изведување на настава од Студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС), по наставните предмети:

1. Инженерска сеизмологија
2. Дрвени конструкции

Скопје, 28.10.2022

Подносител на изјава

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

И З Ј А В А

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас **Јулијана Бојациева**, избрана во звање вонреден професор и вработена на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје, по наставните предмети:

1. Динамика на почви и фундаменти
2. Земјотресно геотехничко инженерство

Скопје, 27.10.2022

Подносител на изјава

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија бр. 82/2018) ја давам следната

ИЗЈАВА

за согласност за учество во изведување настава по одредени предмети од студиската програма на втор циклус студии на студиската програма Земјотресно инженерство

Јас **Марија Витанова**, избрана во звање вонреден професор и вработена на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје на Универзитетот „Св. Кирил и Методиј“ во Скопје, давам согласност за учество во изведување настава од студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) - Скопје, по наставните предмети:

1. Мостови, транспортни и инфраструктурни системи
2. Основи на сеизмички ризик
3. Проектирање на инженерски челични конструкции

Скопје, 27.10.2022

Подносител на изјава

М. Витанова

Врз основа на член 61 став 1 точка 4 од Законот за високо образование (Службен весник на Република Македонија, бр.82/2018) ја давам следната

И З Ј А В А

за давање согласност за учество во изведување на настава по одредени предмети од студиската програма на втор циклус студии по земјотресно инженерство

Јас, **Горан Јекиќ**, избран во звање доцент и вработен во Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС) на Универзитет Св. Кирил и Методиј во Скопје, давам согласност за учество во изведување на настава од Студиската програма Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија (ИЗИИС), по наставните предмети:

1. Динамика на конструкции
2. Армиранобетонски конструкции
3. Вовед во MATLAB и негова примена во инженерски анализи
4. Ѕидани конструкции

Скопје, 28.10.2022

Подносител на изјава

5. Consent of the University Senate for participation of a lecturer in the realization of the study programme in another higher education institution

6. Consent of the Teaching-Scientific Council/the Scientific Council about participation of a lecturer in the realization of the study programme at another University unit

APPENDICES

Appendix 3
Contents of the subject curricula

Appendix 3		**Curriculum of the second cycle of study**					
1.	Subject	**Dynamics of Structures**					
2.	Code	MS-101					
3.	Curriculum	Earthquake Engineering and Engineering Seismology					
4.	Organizer of curriculum (unit, institute, department, section)	Institute of Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje					
5.	Level (first, second, third cycle)	Second cycle					
6.	Academic year / semester	First year / first semester	7.	Number of ECTS credits	6		
8.	Lecturer	Prof. d-r Viktor Hristovski Asst. Prof. d-r Goran Jekic					
9.	Preconditions for enrollment in the subject	Accomplished first cycle of study on technical sciences					
10.	Objectives of the curriculum (competences): Introduction to basic and advanced knowledge in the field of vibration and earthquake engineering						
11.	Contents of the curriculum: Equations of motion, problem formulation and solving methods; Free undamped and damped vibrations of single and multi-degrees of freedom systems; Forced undamped and damped vibrations of single and multi-degrees of freedom systems; Dynamic analysis and response of linear systems to dynamic excitations; Concept of elastic, inelastic and design response spectra; Structural demand and ductility; Seismic analyses of linear systems with time history excitations; Modal analyses, response spectra-based analyses, damping; Multi-story buildings with symmetric and asymmetric bases - analysis using the response spectrum procedure; Introduction to the concept of nonlinear seismic response of multi-story buildings.						
12.	Methods of study: Lectures ex cathedra, mentor's lectures, tutorials, seminar works						
13.	Total available time	180 Hours					
14.	Distribution of available time	30+30+30+30+60					
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours			
		15.2.	Tutorials (laboratory, auditorium), seminars, teamwork	30 Hours			
16.	Other forms of activities	16.1.	Design tasks	30 Hours			
		16.2.	Independent tasks	30 Hours			
		16.3.	Homework	60 Hours			
17.	Mode of grading						
	17.1.	Tests		45 Points			
	17.2.	Seminar papers/project (presentation: written and oral)		45 Points			
	17.3.	Activity and participation		10 Points			
18.	Grading criteria (points/grade)	Up to 50 points	5 (five) (F)				
		From 51 to 60 points	6 (six) (E)				
		From 61 to 70 points	7 (seven) (D)				
		From 71 to 80 points	8 (eight) (C)				
		From 81 to 90 points	9 (nine) (B)				
		From 91 to 100 points	10 (ten) (A)				
19.	Condition for obtaining signature and passing of final	Presence on lectures and tutorials					
20.	Language of lecturing	Macedonian/English					
21.	Method of monitoring the lecturing	Student's investigation and external evaluators					

<table>
<tr><td></td><td colspan="2">quality</td><td colspan="4"></td></tr>
<tr><td rowspan="11">22.</td><td colspan="6">Literature</td></tr>
<tr><td rowspan="5">22.1.</td><td colspan="5">Compulsory literature</td></tr>
<tr><td>No.</td><td>Author</td><td>Title</td><td>Publisher</td><td>Year</td></tr>
<tr><td>1.</td><td>Mario Paz & Young Hoon Kim</td><td>Structural Dynamics Theory and Computation, sixth edition</td><td>Springer Nature Switzerland AG</td><td>2019</td></tr>
<tr><td>2.</td><td>Anil K. Chopra</td><td>Dynamics of Structures Theory and Applications to Earthquake Engineering fifth edition in SI units</td><td>Pearson Education Limited</td><td>2020</td></tr>
<tr><td>3.</td><td>Ray W. Clough & Joseph Penzien</td><td>Dynamics of Structures, third edition</td><td>McGraw-Hill, Inc.</td><td>2003</td></tr>
<tr><td rowspan="5">22.2.</td><td colspan="5">Additional literature</td></tr>
<tr><td>No.</td><td>Author</td><td>Title</td><td>Publisher</td><td>Year</td></tr>
<tr><td>1.</td><td>Z. Zhou, Y. Wen, C. Cai, Q. Zeng</td><td>Fundamentals of Structural Dynamics</td><td>ELSEVIER</td><td>2021</td></tr>
<tr><td>2.</td><td>Trifun Paskalov</td><td>Earthquakes, seismic hazard, and basic principles of earthquake engineering (in Macedonian)</td><td>Nashe Delo, Skopje</td><td>2001</td></tr>
<tr><td>3.</td><td>H. A. Buchholdt, S.E. Moossavi Nejad</td><td>Structural Dynamics for Engineers, second edition</td><td>ICE Publishing, London</td><td>2012</td></tr>
</table>

Appendix no. 3	***Curriculum of the second cycle of study***					
1.	*Subject*	Finite element analysis				
2.	Code	MS-102				
3.	Curriculum	Earthquake Engineering				
4.	Organizer of curriculum (unit, institute, department, section)	Institute of Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje				
5.	Level (first, second, third cycle)	Second cycle				
6.	Academic year / semester	First year / first semester	7.	Number of ECTS credits	6	
8.	Lecturer	Prof. Dr Viktor Hristovski, responsible lecturer Prof. Dr Violeta Mircevska Prof. Dr Igor Gjorgjiev				
9.	Preconditions for enrollment in the subject	Completed first cycle from technical sciences				
10.	Objectives of the curriculum (competences): The purpose of the subject is that students gain detailed knowledge of the Finite Element Method as a numerical method for solving differential equations of various physical problems, with a particular emphasis on problems in the analysis of structures.					
11.	Contents of the curriculum: 1. Introduction. 2. Basics of elasticity theory. 3. Basic concepts of the Finite Element Method. 4. Beam element and frame systems. 5. Finite elements for problems in plane elastic continuums. 6. Shape functions. 7. Mapped elements and numerical integration. 8. Finite elements for three-dimensional analysis. 9. Plate elements. 10. Modelling of shells with flat plate elements. 11. Joint elements. 12. Finite elements in structural dynamics.					
12.	Methods of study: Lectures, tutorials, project tasks, independent tasks, homework					
13.	Total available time	180 Hours				
14.	Distribution of available time	30+30+30+30+60				
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours		
		15.2.	Tutorials (laboratory, auditorium), seminars, team work.	30 Hours		
16.	Other forms of activities	16.1.	Project tasks	30 Hours		
		16.2.	Independent tasks	30 Hours		
		16.3.	Homework	60 Hours		
	Mode of grading					

17.	17.1.	Tests	50 Points
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points
	17.3.	Activity and participation	10 Points

18.	Grading criteria (points/grade)	Up to 50 points	5 (five) (F)
		From 51 to60 points	6 (six) (E)
		From 61 to 70 points	7 (seven) *(D)*
		From 71 to 80 points	8 (eight) (C)
		From 81 to 90 points	9 (nine) (B)
		From 91 to 100 points	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination	Attending lectures actively, successfully completed homework.	
20.	Language of lecturing	Macedonian / English	
21.	Method of monitoring the lecturing quality	Student survey, self-evaluation and external evaluation	

22. Literature

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.	Viktor Hristovski	Analysis with finite elements	IZIIS, Skopje	2023
2.	O. C. Zienkiewicz, R. L. Taylor	The Finite Element Method, fifth edition, Vol. 1: The Basis	Butterworth-Heinemann	2000
3.	J. N. Reddy	An introduction to the Finite Element Method, third edition	McGraw Hill	2006

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.	Eugen Onate	Structural Analysis with the Finite Element Method, Linear Statics, Vol. 1 Basis and Solids	Springer	2009
2.	Eugen Onate	Structural Analysis with the Finite Element Method, Linear Statics, Vol. 2 Beams, Plates and Shells	Springer	2013
3.	K. J. Bathe	Bathe, Finite Element Procedures, second edition	Prentice Hall	2014

Appendix no. 3	**Curriculum of Second cycle of studies**					
1.	Subject	Engineering Seismology				
2.	Code	MS-103				
3.	Curriculum	Earthquake Engineering				
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje				
5.	Level (first, second, third cycle)	second				
6.	Academic year / semester	First year / Firstsemester	7.	Number of ECTS credits	6	
8.	Lecturer	Assoc. prof. Dr. Marta Stojmanovska Assoc. prof. Dr. Radmila Salic Makreska Prof. Dr. Dragi Dojchinovski				
9.	Preconditions for enrollment in the subject	/				
10.	Objectives of the curriculum (competences): Familiarity with the concept and application of engineering seismology, nature of earthquakes, engineering aspects of seismic action, elements of seismic hazard and design seismic parameters.					
11.	Contents of the curriculum: Basic goals of engineering seismology. Physical and dynamic factors that cause the earthquake. Earthquake processes and faults. Seismic waves. Basic characteristics of an earthquake. Strong motion records. Attenuation equations. Introduction to seismic hazard (probabilistic and deterministic approach); Design seismic parameters. Seismic monitoring.					
12.	Methods of study: Lectures, exercises, using software, seminar work/project assignments					
13.	Total available time	180				
14.	Distribution of available time	30+30+50+10+60				
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours		
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours		
16.	Other forms of activities	16.1.	Design tasks	50 Hours		
		16.2.	Independent tasks	10 Hours		
		16.3.	Homework	60 Hours		
17.	Mode of grading					
	17.1.	Tests	40 Points			
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points			
	17.3.	Activity and participation	20 Points			
18.		Up to 50 points	5 (five) (F)			
		From 51 to 60 points	6 (six) (E)			
		From 61 to 70 points	7 (seven) *(D)*			
		From 71 to 80 points	8 (eight) (C)			
		From 81 to 90 points	9 (nine) (B)			
		From 91 to 100 points	10 (ten) (A)			
19.	Condition for obtaining signature and passing of final examination					

20.	Language of lecturing			Macedonian/English		
21.	Method of monitoring the lecturing quality			Surveys and other forms of continuous evaluation		
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	Marta Stojmanovska	Selected teaching materials	UKIM-IZIIS	2022
		2.	Radmila Shalic	Selected teaching materials	UKIM-IZIIS	2022
		3.	Dragi Dojchinovski	Engineering Seismology-script	UKIM-IZIIS reprint	2022
		4.	Sucuogly, H., Akkar, S.	Basic Earthquake Engineering: From seismology to Analysis and Design	Springer	2014
		5.	Bozorgnia Y. nd Bertero V.V	Earthquake Engineering - from Engineering seismology to Performance-based Engineering	CRC Washington	2004
		6.	Robin K. Mc Guire	Seismic Hazard and Risk Analysis	Thomas Hanks Earthquake Engineering Research Institute	2004
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	Leon Reiter	Earthquake Hazard Analysis: Issues and Insights	New York: Colombia University Press	1991

Appendix 3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	**Nonlinearity in Engineering Materials**			
2.	Code	MC-104			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje Institute of Earthquake Engineering and Engineering Seismology, IZIIS			
5.	Level (first, second, third cycle)	Second cycle - MSc			
6.	Academic Year / Semester	First year First Semester	7.	Credit numbers	6
8.	Lecturer	Prof. Dr. Veronika Shendova Prof. Dr. Roberta Apostolska			
9.	Preconditions for enrollment in the subject	-			

10. Objectives of the curriculum (Competences):

The primary goals of the subject program m include acquiring knowledge regarding the:

- Atomic structure, interatomic bonding and crystal structures of crystaline materials;
- Mechanical characteristics, failure mechanisms for ceramic, metallic and polymer materials.

11. Contents of the curriculum:

1. Introduction into Materials Science: historical prospective, modern materials' needs
2. Atomic Structure, Interatomic Bonding and Structure of crystalline solids: fundamental concepts, primary interatomic bonds, secondary bonding, molecules, crystal structures
3. Structures and Mechanical Properties of Metals: fundamental concepts, elastic and plastic deformations, characteristics due to tension, compression, torsion, true and engineering stress, hardness, design and safety factors
4. Failure: fracture, brittle and ductile fracture, principles of fracture mechanics, Fatigue and Creep
5. Structures and Mechanical Properties of Ceramics: crystal structures, mechanical characteristics, advantages and disadvantages, application in civil engineering
6. Structures and Mechanical Properties of Polymers: hydrocarbon molecules, mechanical characteristics, applications in civil engineering
7. Cement and Concrete materials: characteristics, behaviour and stress-strain relationship for monotonic, cyclic and dynamic loading
8. Reinforcing and Structural Steels: material properties, different classes of structural steel, stress-strain relationships for monotonic, reversed and dynamic loading

12.	Methods of study: Interactive lectures with presentations, auditorium and laboratory tutorials, numerical examples			
13.	Total available time	180 hours		
14.	Distribution of available time	30+30+30+15+75		
15.	Forms of lecturing activities	15.1.	Lectures - theoretical lecturing	30 hours
		15.2.	Tutorials (laboratory, auditorium), seminars, teamwork.	30 hours
16.	Other forms of activities	16.1.	Design tasks	30 hours
		16.2.	Independent tasks	15 hours
		16.3.	Homework	75 hours

17.	Mode of grading		
	17.1.	Written exam	20 points
	17.2.	Oral exam	30 points
	17.3.	Seminar work	35 points
	17.4.	Activity	15 points
18.	Grading criteria (points / grade)	upto 50 pt.	5 (five) (F)

		51 x to 60 pt.	6 (six) (E)
		61 x до 70 pt.	7 (seven) (D)
		од 71 до 80 pt.	8 (eight) (C)
		од 81 до 90 pt.	9 (nine) (B)
		од 91 до 100 pt.	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination	50 pt.	
20.	Language of lecturing	Macedonian/English	
21.	Method of monitoring the lecturing quality	Internal evaluation and student surveys	
22.	Literature		
	22.1.	Compulsory literature	
		Nr.	Author, title, publisher, year
		1.	W. D. Callister, D. G. Rethwisch, “Materials Science and Engineering – An Introduction, 10th edition, Wiley (2018)
		2.	R. Park and T. Paulay , “Reinforced concrete structures”, John Wiley and Sons. Inc, 1975, (Chapters1 and 2).
		3.	P. Bhatt, T. MacGinley, B.S. Choo, “Reinforced Concrete Design to Eurocodes”, CRC Press, Taylors & Francis Group, Fourth Ed., 2014 (Chapter 2).
		4.	J. Moehle, “Seismic Design of Reinforced Concrete Buildings”, McGraw-Hill Education, 2015 (Chapters, 2, 3 and 4)
	22.2.	Additional literature	
		Nr.	Author, title, publisher, year
		1.	Eurocode 2: Design of reinforce concrete structures, Part 1-1: General Rules for Building, EN 1992-1-1
		2.	Eurocode 3: Design of Steel Structures, Part 1-1: General Rules for Buildings, EN 1993-1-1
		3.	Lecture notes prepared by the professors of the subject

Appendix 3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	**Reinforced Concrete Structures**			
2.	Code	MC-201			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje Institute of Earthquake Engineering and Engineering Seismology, IZIIS			
	Level (first, second, third cycle)	Second cycle - MSc			
6.	Academic Year / Semester	First year Second Semester	7.	Credit numbers	6
8.	Lecturer	Prof. Dr. Roberta Apostolska Assoc. prof. dr. Goran Jekic			
9.	Preconditions for enrollment in the subject	Passed compulsory subjects from the first semester			

10.	Objectives of the curriculum (Competences): Acquiring of knowledge for characteristics of concrete and steel, and their behavior under monotonic and cyclic loadings with focus on non-linear behavior. Ultimate limit state analysis of RC elements and design of ductile RC elements. Basic principles of design of seismic resistant building structures.
11.	Contents of the curriculum: ▪ Introduction: characteristics of concrete and reinforcing steel as materials. Behaviour of concrete and steel under the effect of monotonous and cyclic loads. ▪ Design of seismic resistant RC building structures, philosophy of design (basic concepts), review of design codes ▪ Loads according to the actual design codes (including Eurocodes) ▪ Design of reinforced concrete elements (beams, slabs, columns and shear walls). Proportioning and detailing of reinforced-concrete structures exposed to vertical and horizontal loads according to the national codes and Eurocodes. ▪ Analysis of ultimate limit states and behaviour of reinforced concrete elements under bending, shear, axial load and torsion. Confinement, buckling, bond and anchorage effects. M-N diagram. ▪ Introduction of ductility. Definition of strength and ductility capacity of building elements (beams, columns and shear walls). ▪ Precast structures – basic terms and design concepts according to the Eurocodes. ▪ Numerical example: analysis and design of RC seismic resistant building structure.
12.	Methods of study: Interactive lecturing with presentations, auditorium tutorials with presentation of numerical examples, literature survey, training for use of software for analysis and design of structures.

13.	Total available time	180 hours		
14.	Distribution of available time	30+30+35+20+65		
15.	Forms of lecturing activities	15.1.	Lectures - theoretical lecturing	30 hours
		15.2.	Tutorials (laboratory, auditorium), seminars, teamwork.	30 hours
16.	Other forms of activities	16.1.	Design tasks	35 hours
		16.2.	Independent tasks	20 hours
		16.3.	Homework	65 hours

17.	Mode of grading		
	17.1.	Oral exam	50 points
	17.2.	Seminar work	35 points
	17.3.	Activity	15 points

18.	Grading criteria (points / grade)	upto 50 pt.	5 (five) (F)
		51 x to 60 pt.	6 (six) (E)

<table>
<tr><td></td><td></td><td colspan="2">61 x до 70 pt.</td><td>7 (seven) (D)</td></tr>
<tr><td></td><td></td><td colspan="2">од 71 до 80 pt.</td><td>8 (eight) (C)</td></tr>
<tr><td></td><td></td><td colspan="2">од 81 до 90 pt.</td><td>9 (nine) (B)</td></tr>
<tr><td></td><td></td><td colspan="2">од 91 до 100 pt.</td><td>10 (ten) (A)</td></tr>
<tr><td>19.</td><td colspan="2">Condition for obtaining signature and passing of final examination</td><td colspan="2">50 pt.</td></tr>
<tr><td>20.</td><td colspan="2">Language of lecturing</td><td colspan="2">Macedonian/English</td></tr>
<tr><td>21.</td><td colspan="2">Method of monitoring the lecturing quality</td><td colspan="2">Internal evaluation and student surveys</td></tr>
<tr><td rowspan="8">22.</td><td colspan="4">Literature</td></tr>
<tr><td rowspan="4">22.1.</td><td colspan="3">Compulsory literature</td></tr>
<tr><td>Nr.</td><td colspan="2">Author, title, publisher, year</td></tr>
<tr><td>1.</td><td colspan="2">R. Park and T. Paulay , “Reinforced concrete structures”, John Wiley and Sons. Inc, 1975.</td></tr>
<tr><td>2.</td><td colspan="2">J. Moehle. Seismic Design of Reinforced Concrete Buildings. McGraw-Hill Education, 2015.</td></tr>
<tr><td rowspan="4">22.2.</td><td colspan="3">Additional literature</td></tr>
<tr><td>Nr.</td><td colspan="2">Author, title, publisher, year</td></tr>
<tr><td>1.</td><td colspan="2">Eurocode 2: Design of reinforce concrete structures, Part 1-1: General Rules for Building, EN 1992-1-1, CEN-CENELEC, 2004.</td></tr>
<tr><td>2.</td><td colspan="2">Eurocode 8, Design of Seismically Resistant Structures, Part 1-1 General Rules. Seismic Actions and Rules for Buildings, EN 1998-1, CEN-CENELC, 2004.</td></tr>
</table>

Appendix 3		**Curriculum of the second cycle of study**			
1.	Title of the lecturing subject	Soil Dynamics			
2.	Code	MS-202			
3.	Study program	Earthquake Engineering and Engineering Seismology			
4.	Organizer of the study program (unit, i.e. institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
5.	Degree (first, second, third cycle)	Second cycle - MSc			
6.	Academic year / semester	First year Second Semester	7.	Number of ECTS credits	6
8.	Lecturer	Prof. Vlatko Sheshov Assoc. Prof. Julijana Bojadjieva Assoc. Prof. Kemal Edip			
9.	Preconditions for enrollment in the subject	-			
10.	Objectives of the curriculum (competences): The primary goals of the subject program include: Acquiring knowledge regarding the fundamental principles governing the behavior of soil materials when subjected to dynamic loads. Understanding the local effects of soil on seismic design parameters, which play a crucial role in determining the safety and stability of structures. Exploring the phenomenon of liquefaction, which involves the transformation of soil from a solid state to a liquid-like state under cyclic loading, and its implications for geotechnical engineering. Familiarizing oneself with laboratory and field methods employed in geotechnical investigations, which are essential for accurately assessing soil behavior and properties. Developing proficiency in numerical modeling techniques, enabling the simulation and analysis of soil behavior under various dynamic conditions. Additionally, the program includes a comprehensive review of Eurocode 8, specifically focusing on the influence of geotechnical conditions. Eurocode 8 is a set of European standards that provides guidelines for the seismic design of structures, and understanding its application in relation to geotechnical factors is crucial for ensuring the safety and reliability of engineered structures.				
11.	Contents of the curriculum: I. Dynamic characteristics of soils: - Dynamic stress-strain relations - Factors affecting the dynamic parameters of the soil - Laboratory methods for defining the dynamic parameters of the soil - Field research II. Dynamic response of soils - Numerical modeling of local soil conditions - Dynamic response of the geotechnical medium III. Geotechnical instabilities - Landslides - Liquefaction IV. Soil-structure interaction - Foundation vibrations - Seismic performance of deep foundations - Dynamic soil-structure interaction V. Soil improvement - Improvement methods - Reduction of liquefaction potential - Constructive protection measures. Review of geotechnical aspects in Eurocode 8				
12.	Learning methods: Lectures, exercises, laboratory exercises and equipment, use of software and equipment, seminar work				
13.	Total available time	180 hours			
14.	Allocation of available time	30+30+30+20+70			
15.	Forms of lecturing activities	15.1.	Lecturing and theoretical teachins	30 hours	
		15.2.	Exercises (laboratory, classroom), seminars, teamwork.	30 hours	
16.	Other forms of activities	16.1.	Project assignments	30 hours	
		16.2.	Independent tasks (written/oral exam)	20 hours	
		16.3	Homework	70 hours	
17.	Mode of grading				
	17.1.	Written exam		20 points	
	17.2.	Oral exam		30 points	
	17.3.	Seminar work		35 points	
	17.4	Activity		15 points	
18.	Evaluation criteria (points/grade)	Up to 50 points		5 (five) (F)	
		From 51 to 60 points		6 (six) (E)	
		From 61 to 70 points		7 (seven) (D)	

			From 71 to 80 points	8 (eight) (C)	
			From 81 to 90 points	9 (nine) (B)	
			From 91 to 100 points	10 (ten) (A)	
19.	Requirement for signature and passing the final exam		50 points		
20.	Language of lecturing		Macedonian and English		
21.	Method of monitoring the lecturing quality		Internal evaluation and student surveys		
22.	Literature				
	22.1.	Compulsory literature			
		Ord. No.	Author	Title	Publisher	Year
		1.	Kramer, Steven L	Geotehnical Earthquake Engineering	Prentice Hall	1996
		2.	Kenji Ishihara.	Soill Behaviour in Earthquake Geotehnics	Oxford Press	1996
		3.	Ikuo Towhata	Geotehnical Earthquake Engineering	Springer	2008
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Instructional materials prepared by the professors of the subject			

Appendix no. 3	**Curriculum of Second cycle of studies**				
1.	Subject	Steel structures			
2.	Code	MS-203			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje			
5.	Level (first, second, third cycle)	second			
6.	Academic year / semester	First year / second semester	7.	Number of ECTS credits	6
8.	Lecturer	prof. Dr. Igor GJORGJIEV Prof. Dr. Vlado Micov Prof. Dr. Zoran Rakićević			
9.	Preconditions for enrollment in the subject	/			
10.	Objectives of the curriculum (competences): Acquiring knowledge about the design of steel structures in high-rise buildings according to Eurocode 3 and 8. Learning the basics of conceptual design of different types of structural systems used in construction. Application of loads (wind, snow, earthquake, temperature) to steel structures in high-rise buildings, static analysis and dimensioning of main and secondary structural elements. Calculation of characteristic connections in steel elements of constructions in high-rise buildings.				
11.	Contents of the curriculum: - Overview of various steel structures in high-rise construction; - Review of structural systems for receiving seismic actions in steel structures; - Defining load cases and combining them; - Calculation of seismic action and analysis of the response of different structural systems in steel structures in high-rise buildings. - Analysis of steel structures in high-rise buildings; - Dimensioning of characteristic elements and connections from the construction system;				
12.	Methods of study: Lectures, exercises, project assignments				
13.	Total available time	6 ECTS x 30h= 180h			
14.	Distribution of available time	30+30+40+40+40			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours	
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours	
16.	Other forms of activities	16.1.	Design tasks	40 Hours	
		16.2.	Independent tasks	40 Hours	
		16.3.	Homework	40 Hours	
17.	Mode of grading				
	17.1.	Tests		50 Points	
	17.2.	Seminar papers/project (presentation: written and oral)		30 Points	
	17.3.	Activity and participation		20 Points	
18.		Up to 50 points		5 (five) (F)	
		From 51 to 60 points		6 (six) (E)	

		From 61 to 70 points	7 (seven) *(D)*
		From 71 to 80 points	8 (eight) (C)
		From 81 to 90 points	9 (nine) (B)
		From 91 to 100 points	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination	Attendence of lectures and exercises. A condition for the exam is completed seminar works	
20.	Language of lecturing	Macedonian/English	
21.	Method of monitoring the lecturing quality	Surveys and other forms of continuous evaluation	

22. Literature

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.	Leroy Gardner and David A. Nethercot	Designers' guide to Eurocode 3: Design of steel buildings EN 1993-1-1, -1-3 and -	ICE Publishing	2011
2.	Jean-Pierre Jaspart, Klaus Weynand	Design of Joints in Steel Structures	Wiley	2017
3.	Luís Simões da Silva, Rui Simões, Helena Gervásio	Design of Steel Structures	Wiley	2016

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.	Raffaele Landolfo, Federico Mazzolani, Dan Dubina, Luís Simões da Silva and Mario d'Aniello	Design of Steel Structures for Buildings in Seismic Areas	Wiley	2017
2.				
3.				

Appendix no. 3	**Curriculum of Second cycle of studies**				
1.	Subject	Introduction to MATLAB and its application to engineering			
2.	Code	MS-204			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje			
5.	Level (first, second, third cycle)	second			
6.	Academic year / semester	First year / second semester	7.	Number of ECTS credits	6
8.	Lecturer	prof. Dr. Igor GJORGJIEV Assoc. Prof. Dr. Goran JEKIĆ			
9.	Preconditions for enrollment in the subject	/			
10.	Objectives of the curriculum (competences): Studying the MATLAB environment and training students for its application in solving engineering and mathematical problems.				
11.	Contents of the curriculum: Basics of Matlab, application of Matlab in linear algebra, working with plots, Input/Output operations with Matlab, writting scripts, numerical methods and Matlab interpolation functions, curve fitting, solving linear systems of equations, numerical integration and differentiation, numerical solving of differential equations, application of Matlab in engineering analyses.				
12.	Methods of study: Lectures, exercises, project assignments				
13.	Total available time	6 ECTS x 30h= 180h			
14.	Distribution of available time	30+30+30+35+80			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours	
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours	
16.	Other forms of activities	16.1.	Design tasks	30 Hours	
		16.2.	Independent tasks	35 Hours	
		16.3.	Homework	55 Hours	
17.	Mode of grading				
	17.1.	Tests	40 Points		
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points		
	17.3.	Activity and participation	20 Points		
18.		Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) *(D)*		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		
		From 91 to 100 points	10 (ten) (A)		
19.	Condition for obtaining signature and passing of final examination	Attendence of lectures and exercises. A condition for the exam is completed seminar works			

20.	Language of lecturing			Macedonian/English		
21.	Method of monitoring the lecturing quality			Surveys and other forms of continuous evaluation		
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	проф. д-р Игор Ѓорѓиев, доц. д-р Горан Јекиќ	Примена на Матлаб за решавање на проблеми од конструктивно и земјотресно	УКИМ	2019
		2.	Igor Gjorgjiev. Goran Jekikj	Solving Numerical Problems Using Matlab – Solved Examples	УКИМ-ИЗИИС	2017
		3.	S.R. Otto and J.P. Denier	An Introduction to Programming and Numerical Methods in MATLAB	Springer-Verlag	2005
		4.	Stormy Attaway	MATLAB, A Practical Introduction to Programming and Problem Solving	Elsevier Inc.	2012
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	Jaan Kiusalaas	Numerical methods in Engineering with Matlab	Cambridge University Press	2005
		2.	Amos Gilat	MATLAB An Introduction with Applications, 4ed	JOHN WILEY & SONS, INC	2011
		3.	William J. Palm	Introduction to MATLAB for Engineers, 3ed	McGraw-Hill	2005

Appendix 3		Curriculum of the second cycle of study			
1.	Title of the lecturing subject	Project planning and management			
2.	Code	MS-205			
3.	Study program	Earthquake Engineering and Engineering Seismology			
4.	Organizer of the study program (unit, i.e. institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
5.	Degree (first, second, third cycle)	Second			
6.	Academic year / semester	First year / second semester	7.	Number of ECTS credits	6
8.	Lecturer	Assoc. Prof. Dr. Kemal Edip Assoc. Prof. Dr. Radmila Salic Makreska			
9.	Preconditions for enrollment in the subject	none			
10.	Objectives of the curriculum (competences): Acquisition of knowledge in the field of management, planning and management of projects, such as complex constructions from high-rise buildings, as well as significant scientific-research, application and educational projects.				
11.	Contents of the curriculum: Today, the importance of planning and managing projects in all aspects of human life is increasing. Projects are becoming more complex and intricate, highlighting the need for training personnel who can effectively handle such challenges in the future. Whether it involves a complex construction endeavor or one that demands significant investments, planning and project management are crucial. These skills are equally essential when undertaking large-scale scientific research and educational projects, both at local and international levels.The proposed content for this subject encompasses various aspects of project management, including: Project management environment: Understanding the contextual factors and influences that impact project management, such as organizational culture, stakeholder analysis, and legal considerations. Project organization: Establishing the project team, defining roles and responsibilities, and creating an effective project structure. Planning and management of human and other resources: Developing strategies for resource allocation, identifying skill requirements, and managing team dynamics. Financial planning and project management: Estimating project costs, creating budgets, monitoring financial performance, and ensuring effective financial management throughout the project lifecycle. Project control: Implementing mechanisms to monitor project progress, identifying and addressing deviations from the plan, and ensuring quality control. Project communications: Developing communication plans, establishing effective channels of communication, and fostering collaboration among project stakeholders. Computer applications with project planning projects: Utilizing software tools and technologies to support project planning, scheduling, and tracking. By covering these topics, students will acquire a comprehensive understanding of project management principles and gain practical skills to successfully plan, execute, and control projects across various domains.				
12.	Learning methods: Theoretical lecturing (lectures) and consultations, practical lecturing (exercises), independent assignments (seminar paper) and home study (exam preparation).				
13.	Total available time	180 hours			
14.	Allocation of available time	30+30+60+60			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 hours	
		15.2.	Exercises-practical lecturing	30 hours	
16.	Other forms of activities	16.1.	Projects	60 hours	
		16.2.	Independent assignments (seminar paper)	30 hours	
		16.3	Home study (exam preparation)	30 hours	
17.	Mode of grading				
	17.1.	Final written exam		40 points	
	17.2.	Individual work/seminar or project paper		50 points	

		(presentation: written and oral)		
	17.3.	Activity and participation		10 points
18.	Evaluation criteria (points/grade)		Up to 50 points	5 (five) (F)
			From 51 to 60 points	6 (six) (E)
			From 61 to 70 points	7 (seven) (D)
			From 71 to 80 points	8 (eight) (C)
			From 81 to 90 points	9 (nine) (B)
			From 91 to 100 points	10 (ten) (A)
19.	Requirement for signature and passing the final exam		Completed seminar work	
20.	Language of lecturing		Macedonian / English	
21.	Method of monitoring the lecturing quality		Student survey, self-evaluation and external evaluation	

22.

Literature

22.1. Compulsory literature

Ord. No.	Author	Title	Publisher	Year
1.	Instructive materials prepared by course Professors			
2.	Kerzner, H., & Kerzner, H. R.	Project management: a systems approach to planning, scheduling, and controlling	John Wiley & Sons	2017
3.	Hendrickson, C., & Au, T.	Project management for construction: Fundamental concepts for owners, engineers, architects, and builders.	Chris Hendrickson	2011

22.2. Additional literature

Ord. No.	Author	Title	Publisher	Year
1.				
2.				

Appendix no. 3	**Curriculum of Second cycle of studies**				
1.	Subject	Timber structures			
2.	Code	MS-206			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje			
5.	Level (first, second, third cycle)	second			
6.	Academic year / semester	First year / First semester	7.	Number of ECTS credits	6
8.	Lecturer	Assoc.prof.d-r Marta Stojmanovska			
9.	Preconditions for enrollment in the subject	/			
10.	Objectives of the curriculum (competences): Acquaintance of students with the advantages and disadvantages of timber structures, the detailed physical, mechanical and rheological characteristics of timber and engineered wood products, as well as with the principles and procedures for ensuring the safety and durability of timber structures.				
11.	Contents of the curriculum: Timber and wood-based products. Calculation of load capacity, stability and usability of the elements of wooden structures made of monolithic wood. Means of connection. Connections and assemblies. Classic roof constructions. Constructions of glued laminated timber and cross-laminated timber.				
12.	Methods of study: Lectures, exercises, project assignments				
13.	Total available time	6 ECTS x 30h= 180h			
14.	Distribution of available time	30+30+60+60			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours	
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours	
16.	Other forms of activities	16.1	Independent tasks	60 Hours	
		16.2.	Homework	60 Hours	
17.	Mode of grading				
	17.1.	Tests	50 Points		
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points		
	17.3.	Activity and participation	10 Points		
18.		Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) *(D)*		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		
		From 91 to 100 points	10 (ten) (A)		

19.	Condition for obtaining signature and passing of final examination					
20.	Language of lecturing		Macedonian/English			
21.	Method of monitoring the lecturing quality		Surveys and other forms of continuous evaluation			
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	S. Thelanderson, H. J. Larsen	Timber Engineering	John Wiley & Sons,	2003
		2.	Marta Stojmanovska	Selected teaching materials	UKIM-IZIIS	2022
		3.	I.Glishovic, B.Stevanovic, M.Todorovic	Analysis od timber structures according EC 5	Civil Engineering Faculty, Belgrade	2019
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.				
		2.				
		3.				

Appendix 3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	**Masonry Structures**			
2.	Code	MC-207			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje Institute of Earthquake Engineering and Engineering Seismology, IZIIS			
5.	Level (first, second, third cycle)	Second cycle - MSc			
6.	Academic Year / Semester	First year Second Semester	7.	Credit numbers	6
8.	Lecturer	Prof. Dr. Veronika Shendova Ass. Prof. Dr. Goran Jekic			
9.	Predictions for enrollment in the subject	-			

10. Objectives of the curriculum (Competences):

The primary goals of the subject program include acquiring knowledge regarding the:

- Characteristics of masonry as structural material
- General principles for design of earthquake resistant masonry structures in compliance with the current technical regulative in the country
- Analysis of masonry structures

11. Contents of the curriculum:

1. Introduction: Masonry as the oldest structural material, types and specifities of masonry structures, modern masonry,
2. Seismic performance of masonry buildings: classification of masonry buildings and their behaviour during earthquakes;
3. Analysis of damage patern and possible causes of failure: clasification of damage paterns, failure mechanisms, cause of failures;
4. Principles of architectural and structural concepts for building configuration: building configuration, dimensions, height, number of stories, wall and openings distribution;
5. Masonry matrials: masonry units, (adobe, stone, brick), mortars, concrete infill, reinforcing steel, mechanical characteristics of masonry wall;
6. Structural systems in Masonry: plain, confined and reinforced masonry;
7. Basic principles for design and analysis of earthquake resistant masonry structures: definition of design quantities, stiffness, bending capacity, shear capacity, numerical examples
8. Comparison of basic provisions in different codes for masonry structures: Pravilnik za tehnicki normativi za zidani zidovi na RM(1991); Eurocode 6, Eurocode 8

12.	Methods of study: Interactive lectures with presentations, auditorium and laboratory tutorials, numerical examples			
13.	Total available time	180 hours		
14.	Distribution of available time	30+30+30+15+75		
15.	Forms of lecturing activities	15.1.	Lectures - theoretical lecturing	30 hours
		15.2.	Tutorials (laboratory, auditorium), seminars, teamwork.	30 hours
16.	Other forms of activities	16.1.	Design tasks	30 hours
		16.2.	Independent tasks	15 hours
		16.3.	Homework	75 hours

17. Mode of grading

17.1.	Written exam	20 points
17.2.	Oral exam	30 points
17.3.	Seminar work	35 points

	17.4.	Activity		15 points
18.	Grading criteria (points / grade)		upto 50 pt.	5 (five) (F)
			51 x to 60 pt.	6 (six) (E)
			61 x до 70 pt.	7 (seven) (D)
			од 71 до 80 pt.	8 (eight) (C)
			од 81 до 90 pt.	9 (nine) (B)
			од 91 до 100 pt.	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination		50 pt.	
20.	Language of lecturing		Macedonian/English	
21.	Method of monitoring the lecturing quality		Internal evaluation and student surveys	
22.	Literature			
	22.1.	Compulsory literature		
		Nr.	Author, title, publisher, year	
		1.	Building construction under seismic condition in the Balkan region, Volume 3, Design and construction of stone and brick-masonry buildings, UNDP/UNDO RER/79/15	
		2.	Tomazevic M., ”Earthquake Resistant Design of Masonry Buildings” Imperial College Press, 1999	
		3.	Eurocode 6: Design of masonry structures, Part 1-1: General Rules for Building, EN 1996-1-1	
	22.2.	Additional literature		
		Nr.	Author, title, publisher, year	
		1.	Eurocode 8: Design of structures for earthquake resistance, Part 1: General Rules, Seismic Actions and Rules for Building, EN 1998-1	
		2.	Paulay & Priestly, “Seismic Design of Reinforced Concrete and Masonry Buildings”, (selected chapters for masonry), John Wiley & Sons, 1992	
		3.	Lecture notes prepared by the professors of the subject	

Appendix 3		**Curriculum of the second cycle of study**			
1.	Subject	Fundamentals of Seismic Risk			
2.	Code	MS-301			
3.	Curriculum	Earthquake Engineering and Engineering Seismology			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
5.	Level (first, second, third cycle)	Second			
6.	Academic year / semester	Second year / second semester	II/2	Number of ECTS credits	6
8.	Lecturer	Assoc. Prof. Dr. Radmila Salic Makreska Assoc. Prof. Dr. Marija Vitanova			
9.	Preconditions for enrollment in the subject	Completed subjects: 1) Engineering Seismology (MS-103) 2) Finite element analysis (MS-102)			
10.	Objectives of the curriculum (competences): Familiarity with the concept of seismic risk through all its four components: seismic hazard, exposure, vulnerability and coping capacity.				
11.	Contents of the curriculum: Seismic risk concept and analysis methodologies. Seismic hazard (characterization and parameterization of seismic sources; earthquake recurrence rates; characterization of earthquake motion, calculation of hazard and results, local site effects/microzoning; seismic input for analysis). Exposure (scope, definition, characterization and modeling of the exposure of interest; construct analysis/culture taxonomy). Vulnerability (domains of vulnerability; analyzes of fragility and vulnerability of structures). Coping capacity (evaluation of the effectiveness of existing and alternative coping capacities against likely risk scenarios). Results (damage and loss analysis, risk levels) and their application. National and world experiences in the area. Platforms and software tools for seismic risk analysis. Application of GIS in seismic risk analyses.				
12.	Methods of study: Theoretical lecturing (lectures) and consultations, practical lecturing (exercises), independent assignments (seminar paper) and home study (exam preparation).				
13.	Total available time	180 hours			
14.	Distribution of available time	30+30+60+60			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 hours	
		15.2.	Exercises-practical lecturing	30 hours	
16.	Other forms of activities	16.1.	Independent tasks (seminar paper)	60 hours	
		16.2.	Home study (exam preparation)	60 hours	
17.	Mode of grading				
	17.1.	Final written exam	50 points		
	17.2.	Individual work/seminar or project paper (presentation: written and oral)	40 points		
	17.3.	Activity and participation	10 points		
18.	Evaluation criteria (points/grade)	Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) (D)		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		
		From 91 to 100 points	10 (ten) (A)		
19.	Condition for obtaining signature and passing of final examination	30 points			
20.	Language of lecturing	Macedonian and English			
21.	Method of monitoring the lecturing quality	Student survey, self-evaluation and external evaluation			
22.	Literature				
	22.1.	Compulsory literature			

		Ord. No.	Author	Title	Publisher	Year
		1.	Beker. J., Bradley, B., Stafford, P.	Seismic Hazard and Risk Analysis	Cambridge University Press	2021
		2.	McGuire, R.	Seismic Hazard and Risk Analysis	Earthquake Engineering Research Institute (EERI)	2004
		3.	Salic Makreska, R., Milutinovic, Z., Vitanova, M.	Selected lecturing materials	UKIM-IZIIS	2022
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Global Program for Safer Schools (GPSS)	Fragility and Vulnerability Assessment Guide	International Bank for Reconstruction and Development / The World Bank	2019
		2.	Pagani, M., Silva, V., Rao, A., Simionato, M., Gee R., Johnson, K.	The OpenQuake-engine, User Manual Instructions	Global Earthquake Model (GEM)	2021

Appendix no. 3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	Bridges, transport, and infrastructural systems			
2.	Code	MS-302			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department,	Ss. Cyril and Methodius University in Skopje Institute of Earthquake Engineering and Engineering Seismology, IZIIS			
5.	Level (first, second, third cycle)	Second cycle - MSc			
6.	Academic year / semester	Second year Third Semester	7.	Number of ECTS credits	6
8.	Lecturer	Prof. Dr. Vlado Micov Assoc. Prof. Dr. Marija Vitanova			
9.	Preconditions for enrollment in the subject	-			
10.	Objectives of the curriculum (competences): The goal of the subject program is acquiring general knowledge about bridges, transport, and infrastructure systems.				
11.	Contents of the curriculum: Bridge basics, parts of bridge structures (superstructure and substructure); classification of bridges: types of bridges according to various criteria; Design conditions for bridges: necessary investigations and design foundations, choice of levels, foundations, free profiles. Types of bridges according to structural systems, bridge construction; bridge equipment (bearings, etc.); Loads on bridges. Bridge calculation. Components of a construction and structural project for bridges. Basic concepts for transportation and infrastructure systems.				
12.	Methods of study: Theoretical lecturing through interactive lectures, practical lecturing, completion of independent tasks, and homework learning.				
13.	Total available time	180 hours			
14.	Distribution of available time	30+30+40+40+40			
15.	Forms of lecturing	15.1.	Lectures- theoretical lecturing	30 hours	
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 hours	
16.	Other forms of activities	16.1.	Design tasks	40 hours	
		16.2.	Independent tasks	40 hours	
		16.3.	Homework	40 hours	
17.	Mode of grading				
	17.1.	Tests			
	17.2.	Seminar papers/project (presentation: written and oral)		80 points	
	17.3.	Activity and participation		20 points	
18.		Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) *(D)*		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		
		From 91 to 100 points	10 (ten) (A)		

19.	Condition for obtaining signature and passing of final examination			50 points		
20.	Language of lecturing			Macedonian/English		
21.	Method of monitoring the lecturing quality			Internal evaluation and student surveys		
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	Jure Radic, Anan Mandic and Goran Puz	Designing of bridges	University of Zagreb, Faculty of Civil Engineering	2005
		2.	Department of concrete structures	Bridges	University of Split, Faculty of Civil and Architectural Engineering	2008
		3.	Marija Vitanova	Selected lecturing materials	UKIM-IZIIS	2022
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	Andreas J. Kappos l M. Saiid Saiidi, M. Nuray Aydınog˘lu l, Tatjana Isakovic	Seismic Design and Assessment of Bridges	Springer	2012
		2.	Wai-Fah Chen And Lian Duan	Bridge Engineering, Seismic Design	CRC PRESS	2018
		3.	M.J.N Priestley, F. Seible and G.M Calvi	Seismic Design and Retrofit od	John Wiley & Sons, INC	2015

Appendix no. 3						
1.	Subject	Fundamentals of Experimental Mechanics, Monitoring				
2.	Code	MS-303 (obligatory)				
3.	Curriculum	Earthquake engineering				
4.	Organizer of curriculum (unit, institute, department, section)	UKIM-IZIIS				
5.	Level (first, second, third cycle)	second				
6.	Academic year / semester	2nd / III semester	7.	Number of ECTS credits	6	
8.	Lecturer	Prof. Dr. Zoran Rakicevic Assoc. Prof. Dr. Aleksandra Bogdanovic				
9.	Preconditions for enrolment in the subject	Passed exams: 1. Dynamic of structures (MS-101) 2. Finite Element Analysis (MS-102)				
10.	Objectives of the curriculum (competences): Introduction to basic and advanced knowledge in the field of experimental mechanics as well as the techniques for experimental testing of elements and structures in full scale and in laboratory conditions, health monitoring of condition and response of structures in exploitation conditions.					
11.	Contents of the curriculum: Introduction to Experimental Mechanics; Physical Modelling in Structural Engineering; Theory of Physical Models, Dimensional Analysis - Buckingham's Theorem, Examples, Types of Physical Models: Truly Reproduced, Adequate, Distorted. Linear Models; Nonlinear Models; Material Characteristics for Models, Effects of Deformation Rate, Simulation of Time-Dependent Effects, Size Effect. Materials for Physical Models: Plastic, Epoxy Resins, Metals and Alloys, Micro-Concrete, Plaster, and a Mixture of Plaster and Sand, Reinforcement Simulation. Modelling of Reinforced Concrete, Masonry, Steel Structures. Examples. Seismic Shake Tables. Characteristics of Shake Tables - Field of Application. Degrees of Freedom. Testing Methodology. Examples. Quasi-Static Testing of Elements and Structures - Definition, Field of Application, and Identified Variables; Stiffness and Deformability, Ductility and Energy Dissipation. Procedure for Quasi-Static Testing; Loading Histories; Controlled Variables. Examples. Testing of Full-Scale Structures. Need and Purpose of Testing, Testing Methods, Testing with Forced Vibration Method, Testing with Ambient Vibration Method, Theory, Equipment, Procedure, and Identified Variables. Transducers and Instrumentation of Structures and Models - Principles and Application. Monitoring the Condition and Response of Structures in Operational Conditions. Acquisition, Processing, and Analysis of Experimental Data.					
12.	Methods of study: Interactive lectures with presentations, classroom exercises with presentations of solved problems, literature study.					
13.	Total available time	180				
14.	Distribution of available time	30+30+60+60				
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours		
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours		
16.	Other forms of activities	16.1.	Design tasks	60 Hours		

		16.3.	Homework	60 Hours

17.	Mode of grading		
	17.1.	Tests	50 Points
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points
	17.3.	Activity and participation	10 Points

18.		Up to x points	5 (five) (F)
		From x to x points	6 (six) (E)
		From x to x points	7 (seven) *(D)*
		From x to x points	8 (eight) (C)
		From x to x points	9 (nine) (B)
		From x to x points	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination	For signature 1. Attendance on lectures and TUTORIALS 2. Completed seminar work. For final examination, additionally: Passed exams: 3. Structural Dynamics (MS-101) 4. Finite Element Analysis (MS-102)	
20.	Language of lecturing	Macedonian and English	
21.	Method of monitoring the lecturing quality	Student survey, self-evaluation and external evaluation	

22. Literature

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.	Piotr D. Moncarz, Helmut Krawinkler Theory and application of experimental model analysis in earthquake engineering. The John A. Blume Earthquake Engineering Center, Stanford University, California Report No.50			
2.	Harry G. Harris, Gajanan Sabnis Structural Modeling and Experimental Techniques, Second Edition, CRC Press LLC1999			

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.	Instructive materials prepared by IZIIS' lecturers on the subject.			

Appendix 3		**Curriculum of the second cycle of study**			
1.	Title of the lecturing subject	Geotechnical Earthquake Engineering			
2.	Code	MS-304			
3.	Study program	Earthquake Engineering and Engineering Seismology			
4.	Organizer of the study program (unit, i.e. institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
5.	Degree (first, second, third cycle)	Second cycle - MSc			
6.	Academic year / semester	Second year Third Semester	7.	Number of ECTS credits	6
8.	Lecturer	Prof. Vlatko Sheshov Assoc. Prof. Kemal Edip Assoc. Prof. Julijana Bojadjieva Prof. Violeta Mircevska			
9.	Preconditions for enrollment in the subject	-			
10.	Objectives of the curriculum (competences): The main objectives of the subject program are: obtaining knowledge in the field of earthquake geotechnical engineering, the stress-strain state in the soil, problems and solutions in the analysis of geotechnical phenomena (stability of slopes, large subsidence, weak soil environments, liquefaction, dynamic amplification of the earthquake action etc.)				
11.	Contents of the curriculum: I. Природа и состав на почвите Почвени формации и почвени наслаги Фазни релации Класификација на почви II. Напони и деформации Дренажни услови Анизотропија Апарати за тестирање на почвите Релации напон - деформација Теорија на критични состојби III. Геотехнички конструкции Потпорни конструкции Sидови - дијафрагми Анализа на стабилност на косини Плитки фундаменти Фундаменти на колови IV. Амплификација на земјотресно дејство Интеракција тло конструкција Деформации на почва и конструкции Ликвифакција				
12.	Learning methods: Lectures, exercises, laboratory exercises and equipment, use of software and equipment, seminar work				
13.	Total available time	180 hours			
14.	Allocation of available time	30+30+30+20+70			
15.	Forms of lecturing activities	15.1.	Lecturing and theoretical teachins	30 hours	
		15.2.	Exercises (laboratory, classroom), seminars, teamwork.	30 hours	
16.	Other forms of activities	16.1.	Project assignments	30 hours	
		16.2.	Independent tasks (written/oral exam)	20 hours	
		16.3	Homework	70 hours	
17.	Mode of grading				
	17.1.	Written exam	20 points		
	17.2.	Oral exam	30 points		
	17.3.	Seminar work	35 points		
	17.4	Activity	15 points		
18.	Evaluation criteria (points/grade)	Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) (D)		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		

			From 91 to 100 points	10 (ten) (A)	
19.	Requirement for signature and passing the final exam			50 points	
20.	Language of lecturing		Macedonian and English		
21.	Method of monitoring the lecturing quality		Internal evaluation and student surveys		
22.	Literature				
	22.1.	Compulsory literature			
		Ord. No.	Author	Title	Publisher	Year
		1.	Kramer, Steven L	Geotehnical Earthquake Engineering	Prentice Hall	1996
		2.	Renato Lancelota	Geotechnical Engineering	Balkema	1979
		3.	Ikuo Towhata	Geotehnical Earthquake Engineering	Springer	2008
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Instructional materials prepared by the professors of the subject			
		2.	Joseph E. Bowles Foundation Analysis and McGraw-Hill 2001 Design Publishing			
		3.	T. V. Lambe Soil Mechanics Series in Soil Engineering			

Appendix 3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	**Repair and Strengthening of Building Structures – Basic Principles**			
2.	Code	MC-305			
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje Institute of Earthquake Engineering and Engineering Seismology, IZIIS			
5.	Level (first, second, third cycle)	Second cycle - MSc			
6.	Academic Year / Semester	First year Third Semester	7.	Credit numbers	6
8.	Lecturers	Prof. Dr. Veronika Shendova Prof. Dr. Roberta Apostolska			
9.	Predictions for enrollment in the subject	-			
10.	Objectives of the curriculum (Competences): The primary goals of the subject program include acquiring basic knowledge in the field of repair and strengthening of building structures.				
11.	Contents of the curriculum: 1. Basic concepts of post-earthquake repair and strengthening, main elements in the decision-making process 2. Types of post-earthquake damage to buildings and their categorization, temporary protection measures in critical situations. 3. Design process for post-earthquake repair and strengthening of building structures: preliminary investigation, criteria for repair and/or strengthening, completion of a detailed inspection to understand the structural system and conditions for its construction, analysis and assessment of damage level, choice of materials and technical solution for repair and/or strengthening, final detailed analysis of repaired/strengthened building structures, design and construction verification; case study.				
12.	Methods of study: Interactive lectures with presentations, auditorium and laboratory tutorials, numerical examples				
13.	Total available time	180 hours			
14.	Distribution of available time	30+30+30+20+70			
15.	Forms of lecturing activities	15.1.	Lectures - theoretical lecturing	30 hours	
		15.2.	Exercises (laboratory, auditorium), seminars, teamwork.	30 hours	
16.	Other forms of activities	16.1.	Design tasks	30 hours	
		16.2.	Independent tasks	20 hours	
		16.3.	Homework	70 hours	
17.	Mode of grading				
	17.1.	Written exam	20 points		
	17.2.	Oral exam	30 points		
	17.3.	Seminar work	35 points		
	17.4.	Activity	15 points		
18.	Grading criteria (points / grade)	upto 50 pt.	5 (five) (F)		
		51 x to 60 pt.	6 (six) (E)		
		61 x до 70 pt.	7 (seven) (D)		
		од 71 до 80 pt.	8 (eight) (C)		
		од 81 до 90 pt.	9 (nine) (B)		
		од 91 до 100 pt.	10 (ten) (A)		
19.	Condition for obtaining signature and passing of final examination	50 pt.			
20.	Language of lecturing	Macedonian/English			

<table>
<tr><td>21.</td><td colspan="2">Method of monitoring the lecturing quality</td><td>Internal evaluation and student surveys</td></tr>
<tr><td rowspan="7">22.</td><td colspan="3">Literature</td></tr>
<tr><td rowspan="2">22.1.</td><td colspan="2">Compulsory literature</td></tr>
<tr><td>Nr.</td><td>Author, title, publisher, year</td></tr>
<tr><td>1.</td><td>Building construction under seismic condition in the Balkan region, Volume 5, Repair and Strengthening of reinforced concrete, stone and brick-masonry buildings, UNDP/UNDO RER/79/15</td></tr>
<tr><td rowspan="4">22.2.</td><td colspan="2">Additional literature</td></tr>
<tr><td>Nr.</td><td>Author, title, publisher, year</td></tr>
<tr><td>1.</td><td>The Mw 6.4 Albania Earthquake on the 26th November 2019, EEFIT Albania mission 2019. Post-earthquake field report. June 2020 (Chapters 6, 7 and 8)</td></tr>
<tr><td>2.</td><td>UPPO – Urgent Earthquake Reconstruction Program, University of Zagreb-Faculty of Civil Engineering & Croatian Chamber of Civil Engineers, 2020 (in Croatian)</td></tr>
<tr><td></td><td>3.</td><td>Lecture notes prepared by the professors of the subject</td></tr>
</table>

Appendix 3		**Curriculum of the second cycle of study**					
1.	Subject	Nonstructural elements					
2.	Code	MS-306					
3.	Curriculum	Earthquake Engineering and Engineering Seismology					
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)					
5.	Level (first, second, third cycle)	Second					
6.	Academic year / semester	Second year / third semester	II/3	Number of ECTS credits	6		
8.	Lecturer	Assoc. Prof. Dr. Aleksandra Bogdanovic Prof. Dr. Zoran Rakicevic					
9.	Preconditions for enrollment in the subject	Completed subjects: 1) Dynamic of structures 2) Basics of experimental mechanics, monitoring, and testing of structures					
10.	Objectives of the curriculum (competences): Introduction to the concept of application, behavior, and analysis of nonstructural elements during seismic events.						
11.	Contents of the curriculum: Introduction; Definition and classification of various types of non-structural elements and their behavior during earthquakes; Causes of damage from earthquakes; Seismic analysis of non-structural elements; Seismic design of nonstructural elements; Seismic behavior of different types of nonstructural elements in the event of an earthquake (partition walls, suspended ceilings, facades, raised floors), examples from experimental testing in the IZIIS laboratory; Recommendations.						
12.	Methods of study: Theoretical lecturing (lectures) and consultations, practical lecturing (exercises), independent assignments (seminar paper) and home study (exam preparation).						
13.	Total available time	180 hours					
14.	Distribution of available time	30+30+60+60					
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 hours			
		15.2.	Exercises-practical lecturing	30 hours			
16.	Other forms of activities	16.1.	Independent tasks (seminar paper)	60 hours			
		16.2.	Home study (exam preparation)	60 hours			
17.	Mode of grading						
	17.1.	Final written exam	50 points				
	17.2.	Individual work/seminar or project paper (presentation: written and oral)	40 points				
	17.3.	Activity and participation	10 points				
18.	Evaluation criteria (points/grade)	Up to 50 points	5 (five) (F)				
		From 51 to 60 points	6 (six) (E)				
		From 61 to 70 points	7 (seven) (D)				
		From 71 to 80 points	8 (eight) (C)				
		From 81 to 90 points	9 (nine) (B)				
		From 91 to 100 points	10 (ten) (A)				
19.	Condition for obtaining signature and passing of final examination	30 points					
20.	Language of lecturing	Macedonian and English					
21.	Method of monitoring the lecturing quality	Student survey, self-evaluation and external evaluation					
22.	Literature						
	22.1.	Compulsory literature					
		Ord. No.	Author	Title	Publisher	Year	

		1.	Andersson Rincon Molina	Non-Structural Elements	Independently Published	2021
		2.	C. V. R. Murty Rupen Goswami A. R. Vijayanarayanan Vipul V. Mehta R. Pradeep Kumar	Introduction to Earthquake Safety of Building Contents (Non-Structural Elements)	Online material	2012
		3.	FEMA 74-FM	Earthquake Hazard Mitigation for Nonstructural Elements	FEMA 74-FM	2005
		4.	FEMA	FEMA Reducing the Risks of Nonstructural Earthquake Damage – A Practical Guide. FEMA E-74	Federal Emergency Management Agency, Washington, DC, 755 p.	2011
		5.	FEMA	Interim Protocols For Determining Seismic Performance Characteristics of Structural and Nonstructural Components Through Laboratory Testing.	FEMA 461 Federal Emergency Management Agency, Washington, DC.	2007
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	International Code Council AC156. Whittier, CA, 10 p.	ICC-ES 2007. Acceptance Criteria for Seismic Qualification by Shake-Table Testing of Nonstructural Components and Systems. International Code Council Evaluation Service, International Code Council AC156. Whittier, CA, 10 p.	International Code Council AC156. Whittier, CA, 10 p.	2007
		2.	Vukobratović, V., and Fajfar, P.	A method for the direct estimation of floor acceleration spectra for elastic and inelastic MDOF structures	Earthquake Engineering & Structural Dynamics	2016

Appendix 3		**Curriculum of the second cycle of study**			
1.	Subject	New technologies for design of structures			
2.	Code	MS-307			
3.	Curriculum	Earthquake Engineering and Engineering Seismology			
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
5.	Level (first, second, third cycle)	Second			
6.	Academic year / semester	Second year / third semester	II/3	Number of ECTS credits	6
8.	Lecturer	Assoc. Prof. Dr. Aleksandra Bogdanovic Prof. Dr. Zoran Rakicevic			
9.	Preconditions for enrollment in the subject	Completed subjects: 1) Dynamic of structures 2) Basics of experimental mechanics, monitoring, and testing of structures			
10.	Objectives of the curriculum (competences): Introduction to the concept of application, behavior, and analysis of nonstructural elements during seismic events.				
11.	Contents of the curriculum: Introduction; Basic principles for designing seismic-resistant structures; New technologies for designing seismic-resistant structures; Designing structures with seismic isolation; Designing structures with passive energy dissipation systems; Application of computer programs for analysis of structures with seismic isolation and energy dissipation systems; Practical implementation; Solved example;				
12.	Methods of study: Theoretical lecturing (lectures) and consultations, practical lecturing (exercises), independent assignments (seminar paper) and home study (exam preparation).				
13.	Total available time	180 hours			
14.	Distribution of available time	30+30+60+60			
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 hours	
		15.2.	Exercises-practical lecturing	30 hours	
16.	Other forms of activities	16.1.	Independent tasks (seminar paper)	60 hours	
		16.2.	Home study (exam preparation)	60 hours	
17.	Mode of grading				
	17.1.	Final written exam	50 points		
	17.2.	Individual work/seminar or project paper (presentation: written and oral)	40 points		
	17.3.	Activity and participation	10 points		
18.	Evaluation criteria (points/grade)	Up to 50 points	5 (five) (F)		
		From 51 to 60 points	6 (six) (E)		
		From 61 to 70 points	7 (seven) (D)		
		From 71 to 80 points	8 (eight) (C)		
		From 81 to 90 points	9 (nine) (B)		
		From 91 to 100 points	10 (ten) (A)		
19.	Condition for obtaining signature and passing of final examination	30 points			
20.	Language of lecturing	Macedonian and English			
21.	Method of monitoring the lecturing quality	Student survey, self-evaluation and external evaluation			
22.	Literature				

	22.1.	Compulsory literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Bogdanovic A., Rakicevic Z., Gjorgjiev I.	Selected teaching materials with solved examples.	UKIM-IZIIS	2019
		2.	C. Christopoulos, A. Filiatrault	Principles of Passive Supplemental Damping and Seismic Isolation 1st Edition	IUSS Press	2006
		3.	Giuseppe Ricciardi, Dario De Domenico and Ruifu Zhang	Recent Advances in the Design of Structures with Passive Energy Dissipation Systems	MDPI applied science	2020
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Soong T.T., Dargush G.F	Passive Energy Dissipation Systems in Structural Engineering	Wiley	1997
		2.	Constantinou M.C., Soong T.T., Dargush G.F	Passive Energy Dissipation Systems for Structural Design and Retrofit, Monograph Series	MCEER, Buffalo, NY, USA	1998

Attachment.3		**Subject Curriculum of Second cycle of studies**			
1.	Subject	**Seismic design of dams**			
2.	Code	MC-308			
3.	Study Programme	Earthquake Engineering			
4.	Organizer	Institute of Earthquake Engineering and Engineering Seismology			
5.	Degree (first, second, third cycle)	Second cycle - MSc			
6.	Academic Year / Semester	First year Second Semester	7.	Credit numbers	6
8.	Professor	Prof. Violeta Mircevska Prof. Viktor Hristovski			
9.	Course prerequisites	-			
10.	Aims of the subject (Competences): Profound knowledge in the field of seismic analysis of dams, treating all phenomena that affect their behavior and reliable assessment of their static and seismic stability.				
11.	Content: Seismic analysis of gravity, arch, rock-filled, earth and tailings dams: Seismic behavior of dams respecting the existing dams exposed to earthquake action, types of damage. Concepts of seismic analysis, evaluation of stiffness, mass, damping, natural vibrations, static and hydrodynamic pressure, temperature effects, interaction between dam and foundation, analysis of the performance of structural joints, non-linear seismic analysis, deterministic and non-deterministic approach to analysis. Seismic response of dams, covering methods for evaluating seismic response. Strength criteria and stability criteria. Provisions for dam protection against earthquakes in seismic prone regions, general and special provisions for reducing vulnerability, recommendations and strengthening.				
12.	Study methods: Theoretical teaching (lectures) and consultations, practical teaching (exercises), independent tasks (project paper) and home study (exam preparation).				
13.	Total available number of lectures	180hours			
14.	Setting of available number of lectures	45+45+30+30+30			
15.	Teaching activities	15.1.	Lecturing and theoretical teachins	45hours	
		15.2.	Exercises (laboratory, classroom), seminars, teamwork.	45 hours	
16.	Other forms of activities	16.1.	Project assignments	30 hours	
		16.2.	Independent tasks (written/oral exam)	30 hours	
		16.3.	Homework	30hours	
17.	Grading				
	17.1.	Written or oral exam	50points		
	17.3.	Seminar work	40points		
	17.4.	Activity	10points		
18.	Grading criteria (points / grade)	upto 50 pt.	5 (five) (F)		
		51 x to 60 pt.	6 (six) (E)		
		61 x до 70 pt.	7 (seven) (D)		
		од 71 до 80 pt.	8 (eight) (C)		
		од 81 до 90 pt.	9 (nine) (B)		
		од 91 до 100 pt.	10 (ten) (A)		
19.	Requirement for signature and passing the final exam	50 pt.			
20.	Course language	Macedonian/English			
21.	Monitoring method for teaching quality	Internal evaluation and student surveys			
	Literature				

	22.1.	Compulsory literature	
		Nr.	Author, title, publisher, year
		1.	H.H. Tomas, Engineering of Large Dams I and II part, John&Wilet and Sons, FIRST EDITION 1976
		2.	H.D. SHARMA,&BHARAT SINGH, EARTH AND ROCK FILL DAMS, INDO-AMERICAN TEXTBOOK PROGRAMME, FIRST EDITION 1976
		3.	Arch Dam Design, Arch Dam Design, Capítulo 8, USACE, Washington, DC, USA, FIRST EDITION 1994
	22.2.	Additional literature	
		Nr.	Author, title, publisher, year
		1.	USBR-US Bureau of Reclamation, Design of double-curvature arch dams planning, appraisal, feasability level, Technical Memorandum EM36-86-68110, 2013
		2.	Bureau of Reclamation Technical Service, Embankment Dams ,DS-13(4)-6:1 Phase 4, Center, Design Standards No. 13, 2011
		3.	Mircevska Violeta, ADAD-IZIIS software: Analysis and Design of Arch and Embankmant dams , User's Manual, Institute of Earthquake Engineering – IZIIS, University of "Ss. Cyril and Methodius, 2018

Appendix no. 3	**Curriculum of Second cycle of studies**					
1.	Subject	Design of engineering steel structures				
2.	Code	MS-309				
3.	Curriculum	Earthquake Engineering				
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje				
5.	Level (first, second, third cycle)	second				
6.	Academic year / semester	First year / third semester	7.	Number of ECTS credits	6	
8.	Lecturer	Prof. Dr. Vlado Micov prof. Dr. Igor GJORGJIEV Prof. Dr. Marija Vitanova				
9.	Preconditions for enrollment in the subject	/				
10.	Objectives of the curriculum (competences): Acquiring knowledge about the principles and rules for the design of engineering steel structures, elements, details and connections.					
11.	Contents of the curriculum: Basic characteristics and field of application of special steel structures. Analysis and design of steel bridges, antenna towers and transmission lines. Analysis of loads and methods for preliminary calculation of engineering objects. Calculation of the load capacity and stability of the construction elements, slenderness and bending length. Structural details with calculation of connections and anchorage with foundation. Production, anti-corrosion protection, transport and installation.					
12.	Methods of study: Lectures, exercises, project assignments					
13.	Total available time	6 ECTS x 30h= 180h				
14.	Distribution of available time	30+30+40+40+40				
15.	Forms of lecturing activities	15.1.	Lectures- theoretical lecturing	30 Hours		
		15.2.	Tutorials (laboratory, auditorium), seminars, team work	30 Hours		
16.	Other forms of activities	16.1.	Design tasks	40 Hours		
		16.2.	Independent tasks	40 Hours		
		16.3.	Homework	40 Hours		
17.	Mode of grading					
	17.1.	Tests	40 Points			
	17.2.	Seminar papers/project (presentation: written and oral)	40 Points			
	17.3.	Activity and participation	20 Points			
18.		Up to 50 points	5 (five) (F)			
		From 51 to 60 points	6 (six) (E)			
		From 61 to 70 points	7 (seven) *(D)*			
		From 71 to 80 points	8 (eight) (C)			
		From 81 to 90 points	9 (nine) (B)			
		From 91 to 100 points	10 (ten) (A)			

19.	Condition for obtaining signature and passing of final examination		Attendence of lectures and exercises. A condition for the exam is completed seminar works			
20.	Language of lecturing		Macedonian/English			
21.	Method of monitoring the lecturing quality		Surveys and other forms of continuous evaluation			
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	Проф. д-р Владо Мицов Проф. д-р Игор Ѓорѓиев Вон. проф. д-р Марија Витанова	Селектирани поглавја припремени од наставниците	ИЗИИС	2022
		2.	Metwally Abu-Hamd	Steel Bridges	Cairo University	2007
		3.	EHAB ELLOBODY	Finite element Analysis And design Of steel and	Elsevier	2014
		4.	Мирослав Дебељковиќ	Челични конструкции во индустриски објекти	Грађевинска книга	1995
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	Luís Simões da Silva Rui Simões Helena Gervásio	Design of steel Structures 2ed	Wilhelm Ernst & Sohn Verlag für Architektur und technische	2016
		2.	Ioannis Vayas, John Ermopoulos, George Ioannidis	Design of Steel Structures to Eurocodes	Springer Nature Switzerland	2019
		3.	Hassan Al Nageim	Steel Structures Practical Design Studies 4ed	Taylor & Francis Group	2017

Appendix no. 3	**Curriculum of Second cycle of studies**				
1.	Subject	Practice			
2.	Code				
3.	Curriculum	Earthquake Engineering			
4.	Organizer of curriculum (unit, institute, department, section)	Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje			
5.	Level (first, second, third cycle)	Second			
6.	Academic year / semester	Second year / Fourth semester	7.	Number of ECTS credits	5
8.	Lecturer	Assoc. prof. Dr. Aleksandra Bogdanovic Assoc. prof. Dr. Julijana Bojadzieva Assoc. prof. Dr. Marta Stojmanovska Assoc. prof. Dr. Radmila Salic Makreska			
9.	Preconditions for enrollment in the subject	/			
10.	Objectives of the curriculum (competences): To provide practical knowledge in the domain of the subjects that are studied in the second cycle of studies in earthquake engineering. The students should spend ten (10) working days in the laboratories of UKIM-IZIIS, and have an insight into the process of realization of various laboratory tests (quasi-static testing of elements, connections or compositions, dynamic testing of structures, non-destructive tests of structures, definition of dynamic characteristics for different soil materials and liquefaction potential of sands, collection and analysis of data from strong motion instruments, etc.).				
11.	Contents of the curriculum: Stay of the students in one of the laboratories of UKIM-IZIIS according to the student's choice for a duration of 10 working days. Content includes the following activities: Process of organization and implementation of appropriate laboratory and field tests. After completing the internship, each student should present to the subject teachers for review, an appropriate report/seminar work for the duration of the internship, with appropriate sketches and photos of the student's choice.				
12.	Methods of study: Lectures, exercises, using software, seminar work/project assignments				
13.	Total available time	150			
14.	Distribution of available time	80+50+20			
15.	Forms of lecturing activities	15.1.	Work in one of the laboratories of UKIM-IZIIS	80 Hours	
		15.2	Preparation of a report/seminar work	50 Hours	
		15.3.	Presentation preparation	20 Hours	
16.	Other forms of activities				

17.			
18.	Grading criteria (points/grade)	Up to 50 points	5 (five) (F)
		From 51 to 60 points	6 (six) (E)
		From 61 to 70 points	7 (seven) *(D)*
		From 71 to 80 points	8 (eight) (C)
		From 81 to 90 points	9 (nine) (B)
		From 91 to 100 points	10 (ten) (A)
19.	Condition for obtaining signature and passing of final examination	Regularity of practice, preparation of report/seminar work.	
20.	Language of lecturing	Macedonian/English	
21.	Method of monitoring the lecturing quality	Surveys and other forms of continuous evaluation	

22. Literature

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.				

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.				

Appendix 4

Data on lecturers that realize the lecturing process within the study programme of the first, the second and the third cycle of studies and mentors of doctoral studies

No. 1	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	**Veronika Shendova**			
2.	Date of birth	5th June 1961			
3.	Education level	PhD			
4.	Title of scientific degree achieved	Doctor of technical science			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Graduated civil engineer	1984	Faculty of Civil Engineering, UKIM	
		Master of Science	1988	UKIM-IZIIS	
		Doctor of technical science	1998	UKIM-IZIIS	
6.	Field, discipline and sub-discipline of M.Sc. Degree	Field	Discipline	Sub-discipline	
		Technical Science	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical Science	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS		Professor	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies as principal lecturer			
		No.	Title of the subject	Curriculum/institution	
		1.	Nonlinearity in Engineering Materials	Earthquake Engineering/IZIIS	
		2.	Masonry Structures	Earthquake Engineering/IZIIS	
		3.	Repair and Strengthening of Building Structures – Basic Principles	Earthquake Engineering/IZIIS	
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies as principal lecturer			
		No.	Title of the subject	Curriculum/institution	
		1.	Advanced Engineering Materials	Earthquake Engineering/IZIIS	
		2.	Repair and Strengthening of Building Structures	Earthquake Engineering/IZIIS	
		3.	Diagnostics and State Monitoring of Existing Structures	Earthquake Engineering/IZIIS	

10.	Selected results achieved in the last five years			
	10.1.	Relevant published scientific papers (up to five)		
		No.	Authors	Title	Publisher/year
		1.	Shendova V.	*Advanced Materials in Earthquake Engineering*	Proc. of SARCOS-RILEM Conference, Skopje, N. Macedonia, 2018
		2.	Shendova V Jekic G., Bozinovski Z., Zlateski A., Delova E.	*Protection of Cultural Heritage from Man-Made and Natural Disasters*	Proc. of International Symposium on Durrës Earthquakes and Eurocodes, Tirana, Albania, 2020
		3.	Shendova V., Jekic G., Zlateski A.	*Application of the methodology developed within the PROHITECH project in seismic retrofitting of mosques*	Proc. of 4th International Conference on Historical Construction PROHITECH, Athens, Greece, 2020
		4.	Shendova V., Zlateski A., Jekic G.	*Experimental Verification of Inovative Technique for Seismic Retrofitting of Traditional Masonry Buildings*	Proc. of 17 World Conference on Earthquake Engineering, Sendai, Japan, 2021
		5.	Shendova V., Apostolska R., Sesov V.	*Tailor made seismic screening-essential tool for sustainable energy efficiency of buildings*	Proc. of 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 2022
	10.2.	Participation in scientific-research and international projects (up to five)		
		No.	Authors	Title	Publisher/year
		1.	Sesov V., Shendova V.	Transnational Network of cooperation for WIDESPREAD NCPs", NCP-WIDENET	EU H2020 Project, 2014-2020
		2.	Shendova V., Sesov V., Zlateski A	Harmonization of vulnerability assessment of urban cultural heritage	EUR-OPA Major Hazard Agreement, Council of Europe, 2020
		3.	Sesov V., Shendova V.	Higher education in the Western Balkans	Ministry of Foreign Affairs of France, University Lion 2, France 2021-2022
		4.	Apostolska R. et al.	Partnership for virtual laboratories in civil engineering, PARforCE,	ERASMUS+ Strategic Partnership ID: KA226-409D7678, 2021-2022
		5.	Martins J. et al.	Innovation in Intelligent Management of Heritage Buildings - i2MHB	ESF Project

	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Shendova V.	Smart materials: types and characteristics	Lecture notes UKIM-IZIIS, 2019
		2.	Shendova V. Zlateski A.	Earthquake resistance of masonry structures	Lecture notes UKIM-IZIIS, 2022
		3.	Shendova V. Zlateski A.	Earthquake protection of historic buildings and monuments	Lecture notes UKIM-IZIIS, 2018

	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sesov V., Apostolska R., Shendova V. et al.	*High-Level Seismic Screening of the Structures of Municipal Buildings in North Macedonia*	Report IZIIS 2022-35
		2.	Sesov V., Apostolska R., Shendova V. et al.	*High-Level Seismic Screening of the Structures of Medical Facilities in North Macedonia*	Report IZIIS 2021-58
		3.	Shendova V., Stojanoski B., Jekic G., Zlateski A., Delova E., Zurovski A	*Analysis of Seismic Stability with Technical Solution for Structural Consolidation od Orta Mosque in Strumica*	Report IZIIS 2021-69
		4.	Shendova V., Stojanoski B., Zlateski A., Jekic G.	*Analysis of stability of existing Charshi Mosque structure under gravity and seismic effects*	Report IZIIS 2020-34
		5.	Shendova V., Micov V., Shalic R., Vitanova M.	*Analysis of Existing State of the Administrative Building of MAKSTIL, Skopje*	Report IZIIS 2020-68
		6.	Bozinovski Z., Shendova V., Stojanoski B., Jekic G	*Analysis of Existing State of the buildings within Telecommunication Center in Skopje*	Report IZIIS 2019-64
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		/	
	11.2.	M. Sc. theses		/	
	11.3.	Doctoral dissertations		3	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Apostolska R., Necevska-Cvetanovska G., Shendova V., Bojadjieva J	*Seismic Performance Assessment of "Hybrid" Structures using Two-Level Multy Group GIS Oriented Approach: Case Studies*	Bulletin of Earthquake Engineering, April 2018, DOI 10.1007/s10518-018-0366-0.
		2.	Degrigny C., Borgarino P., Cefai S., Leus M., Lu S., Katz A., Martins J.,Migliorini M., Shendova V., Marinkovic M., Sylaiou S., Turkalj M., Patias P., Tavares A., Luisa M. Walliser M.,	*Integration of heritage buildings and sites in their surroundings, Public Report*	COST – TD1406, EU-H2020 2019

	3.	Shendova V., Apostolska R., Vitanova M.	*Structural Classification of Building and Bridge Assets in R.N. Macedonia*	Proc. of EU SERA Balkans Seismic Risk Workshop, Belgrade, Serbia 2019
	4.	Apostolska R., Shendova V., Necevska Cvetanovska G.	*The need of integrated renovation of the existing building stock in North Macedonia*	European Journal of Environmental and Civil Engineering, DOI: 10.1080/19648189.2020.1798816
	5.	Shendova V.	*Seismic Retrofitting of Structures, Historic Buildings And Monuments"- IZIIS' Approach*	Scientific Journal of Civil Engineering, SJCE Volume 9/1, 2020
	6.	Crowley H., Despotaki V., Silva V., Dabbeek J., Romão X., Pereira N., Miguel J. James C., Enes D., Huseyin V., Christoph B., Deyanova M., Ademovic N., Atalic J., Riga E., Shendova V., Tiganescu A., Toma-Danil A., Zugic Z., Akkar S. Hancilar U.	*Model of seismic design lateral force levels for the existing reinforced concrete European building stock*	Bulletin of Earthquake Engineering 19, 2839–2865 (2021). https://doi.org/10.1007/s10518-021-01083-32014.

12.2. Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years.

No.	Authors	Title	Publisher/year
1.	Crowley H., Despotaki V., Silva V., Dabbeek J., Romão X., Pereira N., Miguel J. James C., Enes D., Huseyin V., Christoph B., Deyanova M., Ademovic N., Atalic J., Riga E., Shendova V., Tiganescu A., Toma-Danil A., Zugic Z., Akkar S.	*Model of seismic design lateral force levels for the existing reinforced concrete European building stock*	Bulletin of Earthquake Engineering 19, 2839–2865 (2021). https://doi.org/10.1007/s10518-021-01083-32014.
2.	Apostolska R., Necevska-Cvetanovska G., Shendova V., Bojadjieva J	*Seismic Performance Assessment of "Hybrid" Structures using Two-Level Multy Group GIS Oriented Approach: Case Studies*	Bulletin of Earthquake Engineering, April 2018, DOI 10.1007/s10518-018-0366-0.

12.3. Evidence on at least three participations in international meetings for the last four years

No.	Authors	Title of paper	International meeting/ Conference	Year
1.	Shendova V.	*Seismic Retrofitting of Historic Buildings and Monuments-IZIIS Approach*- invited lecture	International FSE-UACG Conference, Sofia, Bulgaria	2019

2.	Shendova V.	*Earthquake Protection of Historic Buildings and Monuments in N. Macedonia* invited lecture	International Conference on Contemporary Civil engineering Practice", Novi Sad, Serbia	2019
3.	Shendova V., Zlateski A., Jekic G.	*Innovative Technique for Seismic Retrofitting of Traditional Masonry Buildings*	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021

No. 2	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	Prof. Dr Viktor HRISTOVSKI			
2.	Date of birth	26.11.1963			
3.	Education level	Doctor of technical sciences			
4.	Title of scientific degree achieved	Full professor in UKIM-IZIIS, Skopje			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Bachelor of Civil Engineering	1987	Faculty of Civil Engineering, UKIM, Skopje	
		Master of Technical Sciences	1990	UKIM-IZIIS, Skopje	
		Doctor of Technical Sciences	1999	UKIM-IZIIS, Skopje	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS, Skopje		Full Professor	

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.		
		2.		
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Dynamics of structures	Earthquake engineering / UKIM-IZIIS, Skopje
		2.	Finite element analysis	Earthquake engineering / UKIM-IZIIS, Skopje
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum /institution

		1.	Dynamics of structures in earthquake engineering	Earthquake engineering / UKIM-IZIIS, Skopje
		2.	Advanced structural dynamics	Earthquake engineering / UKIM-IZIIS, Skopje
		3.	Advanced analysis of structures and continua	Earthquake engineering / UKIM-IZIIS, Skopje
		4.	Nonlinear finite element analysis	Earthquake engineering / UKIM-IZIIS, Skopje

10. Selected results achieved in the last five years

10.1. Relevant published scientific papers (up to five)

No.	Authors	Title	Publisher/year
1.	Nikola Naumovski, Viktor Hristovski, Lidija Krstevska	*Influence of railway induced vibrations on structures and humans in urban areas, Gradevinar 74 (2022) 9, 769-778, DOI: https://doi.org/10.14256/JCE.3398.2021*	Croatian Association of Civil Engineers, 2022
2.	Jurij Jančar, Trajče Zafirov, Miroslav Premrov, Bruno Dujič, Viktor Hristovski	*Seismic resistance of existing buildings with added light timber structure storeys, Gradevinar 74 (2022) 5, 403-417, DOI: https://doi.org/10.14256/JCE.3228.2021*	Croatian Association of Civil Engineers, 2022
3.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Experiences in Seismic Design of Structural Bearings for RC Bridges According to Eurocodes and EN 1337, Paper No C000724 17th World Conference on Earthquake Engineering, 17 WCEE, Sendai, Japan, September 13th to 18th 2020.*	17 WCEE, Sendai, Japan, 2020
4.	Violeta Mircevska, Miroslav Nastev, Viktor Hristovski, Ivana Bulajic	*Eigenvalue solution for arch dams: ADAD-IZIIS Software, Gradevinar 70 (2018) 10, 881-890, DOI: https://doi.org/10.14256/JCE.1662.2016.*	Croatian Association of Civil Engineers, 2018
5.	Viktor Hristovski, Violeta Mircevska, Bruno Dujic and Mihail Garevski	*Comparative dynamic investigation of cross-laminated wooden panel systems: Shaking-table tests and analysis, Advances in Structural Engineering, Volume 21 Issue 10, July 2018, 1421 – 1436,*	Sage Journals, 2018

	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Учесник во Infranat проек, водачи: Михаил Гаревски, Влатко Шешов	*INFRA-NAT – Increased Resilience of Critical Infrastructure to Natural and Human-Induced Hazards, 783298 – INFRA-NAT – UCPM-2017-PP-AG, Duration 24 months, 1st January 2018, - 31st December 2019.*	2018-2019
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
		2.			
		3.			
		4.			
		5.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Detailed design and technical assistance for section Kumanovo – Beljakovce, Republic of Macedonia, Design of structural bearings, Railway Underpass structures UP45, UP46, UP47, UP48, UP49, Corridor VIII – Eastern section.*	Eurobobild Engineering, DOOEL Skopje, Republic of Macedonia, Skopje, July 2019
		2.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Detailed design and technical assistance for section Kumanovo – Beljakovce, Republic of Macedonia, Design of structural bearings, Railway bridge structure BR54, Corridor VIII – Eastern section.*	Eurobobild Engineering, DOOEL Skopje, Republic of Macedonia, Skopje, July 2019
		3.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Detailed design and technical assistance for section Kumanovo – Beljakovce, Republic of Macedonia, Design of structural bearings, Road Overpass Structures OP30, OP31, OP32, OP33, OP34, Corridor VIII – Eastern section.*	Eurobobild Engineering, DOOEL Skopje, Republic of Macedonia, Skopje, July 2019
		4.	Viktor Hristovski	*Over100 expert opinions for designed and executed level of strength, stability and seismic protection of structures in Macedonia*	УКИМ-ИЗИИС, 2018-2022
		5.			
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		/	
	11.2.	M. Sc. theses		3	
	11.3.	Doctoral dissertations		7	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				

	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Nikola Naumovski, Viktor Hristovski, Lidija Krstevska	*Influence of railway induced vibrations on structures and humans in urban areas, Gradevinar 74 (2022) 9, 769-778, DOI: https://doi.org/10.14256/JCE.3398.2021*	Croatian Association of Civil Engineers, 2022
		2.	Jurij Jančar, Trajče Zafirov, Miroslav Premrov, Bruno Dujič, Viktor Hristovski	*Seismic resistance of existing buildings with added light timber structure storeys, Gradevinar 74 (2022) 5, 403-417, DOI: https://doi.org/10.14256/JCE.3328.2021*	Croatian Association of Civil Engineers, 2022
		3.	Hrvoje Smoljanović, Ivan Balić, Ante Munjiza and Viktor Hristovski	*Rotation-Free Based Numerical Model for Nonlinear Analysis of Thin Shells, Buildings 2021, 11(12), 657; https://doi.org/10.3390/buildings11120657*	MDPI Open Access Journals, 2021
		4.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Experiences In Seismic Design Of Structural Bearingsand Expansion Joints For RC Bridges According To Eurocodes, Proceedings of 1st Croatian Conference on Earthquake Engineering, 1CroCEEZagreb, Croatia - March 22nd to 24nd, 2021Edited by Laksusic, S. and Atalic, J , https://doi.org/10.5592/CO/1CroCEE.2021.19*	Croatian Association of Civil Engineers, 2021
		5.	Violeta Mircevska, Miroslav Nastev, Viktor Hristovski, Ivana Bulajic	*Eigenvalue solution for arch dams: ADAD-IZIIS Software, Gradevinar 70 (2018) 10, 881-890, DOI: https://doi.org/10.14256/JCE.1662.2016.*	Croatian Association of Civil Engineers, 2018

		6.	Viktor Hristovski, Violeta Mircevska, Bruno Dujic and Mihail Garevski	*Comparative dynamic investigation of cross-laminated wooden panel systems: Shaking-table tests and analysis, Advances in Structural Engineering, Volume 21 Issue 10, July 2018, 1421 – 1436, https://doi.org/10.1177/1369433217749766*	Sage Journals, 2018	
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years				
		No.	Authors	Title	Publisher/year	
		1.	Viktor Hristovski, Violeta Mircevska, Bruno Dujic and Mihail Garevski	Comparative dynamic investigation of cross-laminated wooden panel systems: Shaking-table tests and analysis, Advances in Structural Engineering, Volume 21 Issue 10, July 2018, 1421 – 1436, https://doi.org/10.1177/1369433217749766	2018	
		2.	Nikola Naumovski, Viktor Hristovski, Lidija Krstevska	*Influence of railway induced vibrations on structures and humans in urban areas, Gradevinar 74 (2022) 9, 769-778, DOI: https://doi.org/10.14256/JCE.3398.2021*	Croatian Association of Civil Engineers, 2022	
		3.	Hrvoje Smoljanović, Ivan Balić, Ante Munjiza, Viktor Hristovski	*Rotation-Free Based Numerical Model for Nonlinear Analysis of Thin Shells, Buildings 2021, 11(12), 657; https://doi.org/10.3390/buildings11120657*	MDPI Open Access Journals, 2021	
	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Experiences In Seismic Design Of Structural Bearingsand Expansion Joints For RC Bridges According To Eurocodes, DOI https://doi.org/10.5592/CO/1CroCEE.2021.19*	Proceedings of 1st Croatian Conference on Earthquake Engineering, 1CroCEEZagreb, Croatia - March 22nd to 24nd, 2021, Edited by Laksusic, S. and Atalic, J.	2021

		2.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	*Experiences in Seismic Design of Structural Bearings for RC Bridges According to Eurocodes and EN 1337, Paper No C000724* .	17th World Conference on Earthquake Engineering, 17 WCEE, Sendai, Japan, September 13th to 18th 2020.	2020
		3.	Viktor Hristovski, Emil Jankulovski	Aspects of RC Walls Modelling and Design Using Finite Element Method	Proceedings of iNDIS 2021 Conference for Planning, Design, Construction and Building Renewal, Novi Sad, 24-26 November 2021.	2021

No. 3			Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations		
1.	Name and surname		Prof. Dr Vlado Micov		
2.	Date of birth		28.09.1958		
3.	Education level		Doctor of technical sciences		
4.	Title of scientific degree achieved		Full professor in UKIM-IZIIS, Skopje		
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree		Education	Year	Institution
			Bachelor of Civil Engineering	1983	Faculty of Civil Engineering, UKIM, Skopje
			Master of Technical Sciences	1991	UKIM-IZIIS, Skopje
			Doctor of Technical Sciences	1999	UKIM-IZIIS, Skopje
6.	Field, discipline and sub-discipline of M.Sc. degree		Field	Discipline	Sub-discipline
			Techical Sciences	Civil Engineering	Earthquake Engineering
7.	Field, discipline and sub-discipline of Ph. D. degree		Field	Discipline	Sub-discipline
			Techical Sciences	Civil Engineering	Earthquake Engineering
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field		Institution		Title in which he/she has been elected and in which field
			UKIM-IZIIS, Skopje		Full Professor
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Bridges, transport and infrastructure systems	Earthquake engineering / UKIM-IZIIS, Skopje	
		2.	Steel structures	Earthquake engineering / UKIM-IZIIS, Skopje	
		3.	Design of engineering steel structures	Earthquake engineering / UKIM-IZIIS, Skopje	
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
		No.	Title of the subject	Curriculum /institution	

		1.	Design of transportation systems in seismic regions	Earthquake engineering / UKIM-IZIIS, Skopje	
		2.	Advanced analysis of steel structures	Earthquake engineering / UKIM-IZIIS, Skopje	
		3.	Rehabilitation and strengthening of engineering structures	Earthquake engineering / UKIM-IZIIS, Skopje	
		4.	Diagnostics and State Monitoring of Existing Structures	Earthquake engineering / UKIM-IZIIS, Skopje	
10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Gjorgjiev, I., Petreski, B., Micov, V.	Experimental Study of Beam-To-Column Connection for Prefabricated RC Structure,	15th Congress of ASES, 6-8 September 2018, Zlatibor, Serbia.
		2.	I.Gjorgjiev, B. Petreski, V. Micov	"Quasi-Static Testing of Columns-To-Foundation Connection for Prefabricated RC Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering	20-22 September, 2018, Varna, Bulgaria, ISSN: 2603-4255
		3.	Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,	"Influence of Viscous Dampers on Seismic Response of Isolated Bridges Including Soil Structure Interaction",	Conference Bridge Engineering Copenhagen 2020
		4.	Vitanova, M., Sheshov, V., Micajkov, S., Abarca, A., Monteiro, R., Salic, R., Edip, K., Micov, V., Petreski, B	Classification of Existing Bridges in R. N. Macedonia Using Improved Bridge Inventory Database,	18th International Symposium of MASE, 2-5 October 2019, Ohrid, N. Macedonia.
		5.	Vitanova, M., Gjorgjiev, I., Hristovski, V., Micov, V.,	"Methodologies for Stability Assessment and Newly Designed RC Bridges",	International Conference on Bridge Analysis, Design and Assessment March 06-07, 2023 in Barcelona, Spain
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year

		1.	Eucentre Foundation – Italy, Yaron Offir Engineers LTD - Israel, & UKIM – IZIIS – R.Macedinia	"Increased Resilience of Critical Infrastructure under Natural and Human-induced Hazards (INFRA-NAT)"	INFRA-NAT H2020-EUCENTRE_INFRA_NAT 01.01.2018-31.12.2019
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	-	-	-
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sesndova, V., Micov, V., Radmila, S., Marija, V., Nanevska, A., Zlateski, A., Runevski, K., Delova, E.,	Static and seismic analysis of the construction of the building "Administrative building of Maxtil in Skopje"	Report: UKIM-IZIIS /2020
		2.	Micov, V., Gjorgjiev, I., Zurovski, A., Zafirov, T.,	"Testing of Overpass Along Demir Kapija-Smokvica Section Under Trial Load", Examination of seismic stability of the "Sports Center Boris Trajkovski" complex in Skopje; The secondary transverse steel grids (horns) are additionally loaded with equipment (sound system, lighting, LED screens, etc.) during various "Events" events.	Proceedings 19th International Symposium, Macedonian Association of Structural Engineers, Ohrid, North Macedonia, 27 – 30 April 2022
		3.	Micov, V., Sesov, V., Petreski, B., Markovski, I.,	Testing of the seismic stability of the roof structure in the VIP arena in the "Sports Center Boris Trajkovski" complex in Skopje;	Report: UKIM-IZIIS /2019

		4.	Micov, V., Sesov, V., Petreski, B., Markovski, I., Filipovski, D.,	Testing of seismic stability of the "Sports Center Boris Trajkovski" complex in Skopje; The secondary transverse steel grids are additionally loaded with equipment (sound system, lighting, LED screens, etc.) during various "Events"	Report: UKIM-IZIIS /2019
		5.	Micov, V., Gjorgjiev, I.,	Static and seismic analysis for the upgrade of facility-B "pharmacy production" in the Alkaloid A.D.	Report: UKIM-IZIIS 2018

11.	Mentorship at undergraduate, master and doctoral studies		
	11.1.	Final examinations for award of diploma	/
	11.2.	M. Sc. theses	/
	11.3.	Doctoral dissertations	/

12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	-	-	-
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.	-	-	-
	12.3.	Evidence on at least three participations in international meetings for the last four years			

		No.	Authors	Title of paper	International meeting/conference	Year
		1.	Gjorgjiev, I., Petreski, B., Micov, V.	Experimental Study of Beam-To-Column Connection for Prefabricated RC Structure,	15th Congress of ASES, 6-8 September 2018, Zlatibor, Serbia.	2018
		2.	Vitanova, M., Sheshov, V., Micajkov, S., Abarca, A., Monteiro, R., Salic, R., Edip, K., Micov, V., Petreski, B	Classification of Existing Bridges in R. N. Macedonia Using Improved Bridge Inventory Database,	18th International Symposium of MASE, 2-5 October 2019, Ohrid, N. Macedonia.	2019

		3.	Vitanova, M., Sesov, V., Hristovski, V., Micov, V., Edip,K.	**Assessment of SSI effects on the seismic response of multi span RC girder bridges**	17th World Conference on Earthquake Engineering, Sendai, Japan	2021

No. 4	Data on lecturers that realize the lecturing process within the study programme of the first, the second and the third cycle of studies and mentors of doctoral studies				
1.	Name and surname	ZORAN RAKICEVIC			
2.	Date of birth	09.11.1966			
3.	Education level	Doctoral Studies			
4.	Title of scientific degree achieved	Doctor of Technical Science			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Graduate Civil Engineer	1991	University “Ss. Cyril and Methodius” in Skopje, Civil Engineering Faculty – Skopje, Republic of Macedonia	
		Master of Technical Science	1995	University “Ss. Cyril and Methodius” in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS), Republic of Macedonia	
		Doctor of Technical Science	2001	University “Ss. Cyril and Methodius” in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS), Republic of Macedonia (UKIM-IZIIS)	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical Science	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical Science	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS		Full Professor / earthquake engineering	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	

		1.	Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures	Earthquake Engineering / UKIM-IZIIS
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Experimental mechanics	Earthquake Engineering / IZIIS
		2.	Structural Control	Earthquake Engineering / IZIIS

10. Selected results achieved in the last five years

10.1. Relevant published scientific papers (up to five)

No	Authors	Title	Publisher/year
1.	Jamie Goggins, Yadong Jiang, Brian M Broderick, Suhaib Salawdeh, Gerard J O'Reilly, Ahmed Y Elghazouli, Hatim Alwahsh, Aleksandra Bogdanovic, Zoran Rakicevic, Igor Gjorgjiev, Angela Poposka, Borjan Petreski, Igor Markovski	Shake Table Testing of Self-Centring Concentrically Braced Frames	Volume4, Issue2-4 Special Issue: EUROSTEEL 2021 Sheffield — Steel's coming home Wiley, September 2021
2.	Zoran Rakicevic, Aleksandra Bogdanovic, Ehsan Noroozinejad Farsangi, Abbas Sivandi-Pour	A hybrid seismic isolation system toward more resilient structures: Shaking table experiment and fragility analysis	Journal of Building Engineering/2021
3.	Aleksandra Bogdanovic, Zoran Rakicevic, Ehsan Noroozinejad Farsangi	Shake table tests and numerical investigation of a resilient damping device for seismic response control of building structures	Structural Control and Health Monitoring/2019
4.	Aleksandra Bogdanovic, Zoran Rakicevic	Optimal damper placement using combined fitness function	Frontiers in Built Environment/2019
5.	Ehsan Noroozinejad Farsangi, Aleksandra Bogdanovic, Zoran Rakicevic, Angela Poposka, Marta Stojmanovska	Ambient vibration testing and field investigations of two historical buildings in Europe	Tech Science Press/Structural Durability & Health Monitoring/2020

10.2. Participation in scientific-research and international projects (up to five)

No	Authors	Title	Publisher/year
1.	Istituto Universitario di Studi Superiori di Pavia Italy CENTRO EUROPEO DI FORMAZIONE E RICERCA IN INGEGNERIA SISMICA Italy PANEPISTIMIO PATRON Greece ARISTOTELIO	ERIES: Engineering Research Infrastructures for European Synergies	HORIZON-INFRA-2021-SERV-01-07/2022-2026

			PANEPISTIMIO THESSALONIKIS Greece LABORATORIO NACIONAL DE ENGENHARIA CIVIL Portugal COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES France UNIVERSITY OF BRISTOL United Kingdom Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE North Macedonia UNIVERSITA DEGLI STUDI DI GENOVA Italy THE UNIVERSITY OF WESTERN ONTARIO Canada TECHNISCHE UNIVERSITEIT EINDHOVEN Netherlands CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT France		
		2.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022
		3.	BAUHAUS-UNIVERSITAET WEIMAR Germany SVEUCILISTE JOSIPA JURJA STROSSMAYERA, OSIJEKU Croatia RUHR-UNIVERSITAET BOCHUM Germany Ss. CYRIL AND METHODIUS UNIVERSITY, SKOPJE The Republic of North Macedonia UNIVERSIDADE DE AVEIRO Portugal	PARFORCE: Partnership for virtual laboratories in civil engineering	Call 2020 Round 1 KA2 - Cooperation for innovation and the exchange of good practices KA226 - Partnerships for Digital Education Readiness/ 2021-2023
		4.	Eidgenössische Technische Hochschule Zürich (ETH) Centro Europeo di Formazione e Ricerca in Ingegneria Sismica	SERA: The Seismology and Earthquake Engineering Research Infrastructure Alliance	Horizon 2020-INFRAIA-01-2016-2017 ‘Integrating Activities for

			(EUCE) Joint Research Centre – European Commission (JRC) Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA) Laboratório Nacional de Engenharia Civil (LNEC) University of Patras (UPAT) University of Bristol (UBRI) Institute of Earthquake Engineering and Engineering Seismology SS Cyril and Methodius University Skopje (IZIIS) The Chancellor, Masters and Scholars of the University of Cambridge (UCAM) Università degli Studi di Trento (UNITN) Universidade de Porto (UPORTO) Universidad Politecnica de Madrid (UPM) Bogazici Universitesi (BOUN) Aristotelio Panepistimio Thessalonikis (AUTH) Helmholtz Zentrum Potsdam Deutsches Geoforschungszentrum (GFZ) Koninklijk Nederlands Meteorologisch Instituut (KNMI) Institut National de Cercetare-Dezvoltare Pentru Fizica Pamantului (INFP) National Observatory of Athens (NOA) Uppsala Universitet (UU) Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC) Natural Environment Research Council (NERC) United Kingdom Euro-Mediterranean Seismological Centre (EMSC) Università degli Studi di Napoli Federico II (UNINA) Centre National de la Recherche Scientifique (CNRS) Analisi e Monitoraggio del Rischio Ambientale Scarl (AMRA) Stiftelsen NORSAR (NORSAR) Instytut Geofizyki Polskiej	for Europe	Advanced Communities'/ 2017-2020

			Akademii Nauk (IGPAS) Istituto Nazionale di Geofisica e Vulcanologia (INGV) Instituto Superior Técnico (IST) Bureau de Recherches Géologiques et Minières (BRGM) Universitetet i Bergen (UiB) Norway		
		5.	Cracow University of Technology, Faculty of Civil Engineering, Cracow, Poland, UKIM-IZIIS	Dynamic testing with force vibration method of Infills and Masonry structures protected by deformable Polyurethanes	UKIM-IZIIS 2020/2021
	10.3.	Published books in the last five years (up to five)			
		No	Authors	Title	Publisher/year
		1.	-	-	-
	10.4.	Published professional papers for the last five years (up to five)			
		No	Authors	Title	Publisher/year
		1.	Александра Богановиќ, Лидија Крстевска, Игор Марковски, Никола Наумовски, Филип Манојловски, Ангела Поповска, Дејан Филиповски, Антонио Шокларовски, Мирослав Стаменковиќ, Марија Витанова, Јулијана Бојациева, Кемал Едип, Тони Китановски, Дејан Ивановски, Влатко Шешов, Зоран Ракиќевиќ	Испитување на дозволени оптоварувања и други важни карактеристики на челичен мост кај село Криволак	UKIM-IZIIS /2022
		2.	Александра Богановиќ, Лидија Крстевска, Игор Марковски, Никола Наумовски, Филип Манојловски, Ангела Поповска, Дејан Филиповски, Антонио Шокларовски, Мирослав Стаменковиќ, Марија Витанова, Јулијана Бојациева, Кемал Едип, Тони Китановски, Дејан Ивановски, Влатко Шешов, Зоран Ракиќевиќ	Испитување на дозволени оптоварувања и други важни карактеристики на бетонски мост кај село Криволак	UKIM-IZIIS /2022
		3.	Rakicevic Z., Bogdanovic A., Manojlovski F., Shoklarovski A., Poposka A., Naumovski N., Markovski I., Filipovski D., Stamenkovski M., Keramitciev B.	Dynamic testing with forced vibration method of Infills and Masonry structures protected by deformable Polyurethanes in seismic areas	UKIM-IZIIS /2020
		4.	Bogdanovic, Z. Rakicevic, I. Markovski, D. Filipovski	Out of plane shake table testing of brick masonry infill walls with and without “seismic” wall	UKIM-IZIIS /2018

				paper	
		5.	Z. Rakicevic, A. Bogdanovic, I. Markovski, D. Filipovski, N. Naumovski	Seismic Test – Qualification Report for Combined Instrument Transformer Type VAU-245	UKIM-IZIIS /2018
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		/	
	11.2.	M. Sc. theses		/	
	11.3.	Doctoral dissertations		2	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No	Authors	Title	Publisher/year
		1.	A.Bogdanovic, Z.Rakicevic, J.Bojadjieva, L.Krstevska, A. Poposka, F. Manojlovski, A. Shoklarovski, I. Markovski, D.Filipovski, N. Naumovski	3D Seismic network in urban environment-case study, Ohrid, N. Macedonia	3rd European conference on earthquake engineering & seismology Bucharest, Romania, 2022/3ECEES/2022
		2.	Zoran Rakicevic, Aleksandra Bogdanovic, Dimitar Jurukovski, Predrag Gavrilovic	Design procedure of a telecommunication tower in Skopje, N. Macedonia under dynamic loads	3rd European conference on earthquake engineering & seismology Bucharest, Romania, 2022/3ECEES/2022
		3.	Theodoros Rousakis, Arkadiusz Kwiecien, Alberto Viskovic, Alper Ilki, Petra Tiller, Bahman Ghiassi, Andrea Benedetti, Matija Gams, Zoran Rakicevic, Omer Faruk Halici, Bogusław Zając, Łukasz Hojdys, Piotr Krajewski, Fabio Rizzo, Camilla Colla, Elena Gabrielli, Anastasios Sapalidis, Efthimia Papadouli, Vachan Vanian, Aleksandra Bogdanovic	Quick Reparation of Infills in RC Frames After Seismic Damages–Experimental Tests on Shaking Table	International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering/2021
		4.	Jamie Goggins, Yadong Jiang, Brian M Broderick, Suhaib Salawdeh, Gerard J O'Reilly, Ahmed Y Elghazouli, Hatim Alwahsh, Aleksandra Bogdanovic, Zoran Rakicevic, Igor Gjorgjiev, Angela Poposka, Borjan Petreski, Igor Markovski	Shake Table Testing of Self-Centring Concentrically Braced Frames	Eurosteel, Sheffield, UK/2021
		5.	Predrag Gavrilovic, Dimitar Jurukovski, Zoran Rakicevic, Aleksandra Bogdanovic	Structural design for seismic action or wind action, or both. Case studies	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
		6	Arkadiusz Kwiecień, Zoran Rakicevic, Aleksandra Bogdanovic, Filip Manojlovski,	PUFJ and FRPU earthquake protection of infills tested	1CROCEE-1st Croatian Conference on Earthquake

			Angela Poposka, Antonio Shoklarovski, Theodoros Rousakis, Alper Ilki, Matja Gams, Alberto Viskovic	in resonance	Engineering, /2021
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No	Authors	Title	Publisher/year
		1.	Zoran Rakicevic, Aleksandra Bogdanovic, Ehsan Noroozinejad Farsangi, Abbas Sivandi-Pour	A hybrid seismic isolation system toward more resilient structures: Shaking table experiment and fragility analysis	Elsevier, Journal of Building Engineering/2021
		2.	Theodoros Rousakis, Alper Ilki, Arkadiusz Kwiecien, Alberto Viskovic, Matija Gams, Petra Triller, Bahman Ghiassi, Andrea Benedetti, Zoran Rakicevic, Camilla Colla, Omer Faruk Halici, Bogusław Zając, Łukasz Hojdys, Piotr Krajewski, Fabio Rizzo, Vachan Vanian, Anastasios Sapalidis, Efthimia Papadouli, Aleksandra Bogdanovic	Deformable polyurethane joints and fibre grids for resilient seismic performance of reinforced concrete frames with orthoblock brick infills	Polymers, MPDI/2020
		3.	Ehsan Noroozinejad Farsangi, Aleksandra Bogdanovic, Zoran Rakicevic, Angela Poposka, Marta Stojmanovska	Ambient vibration testings and field investigations of two historical buildings in Europe	Tech Science Press/Structural Durability & Health Monitoring/2020
		4.	Aleksandra Bogdanovic, Zoran Rakicevic, Ehsan Noroozinejad Farsangi	Shake table tests and numerical investigation of a resilient damping device for seismic response control of building structures	Willey/Structural Control and Health Monitoring/2019
	12.3.	Evidence on at least three participations in international meetings for the last four years			
		No.	Authors	Tutle	International meeting/conference	Year
		1.	Zoran Rakicevic, Aleksandra Bogdanovic, Dimitar Jurukovski, Predrag Gavrilovic	Design procedure of a telecommunication tower in Skopje, N. Macedonia under dynamic loads	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		2.	A. Bogdanovic, Z. Rakicevic, J. Bojadzieva, V. Sheshov, K. Edip A.Poposka, F. Manojlovski, A. Shoklarovski, I. Markovski, D. Filipovskiand N. Naumovski	3D Seismic network in urban environment	7th European Conference on Structural Control, Warsaw, Poland	2022
		3.	Jamie Goggins,	Experimental	17th World Conference	2021

			Yadong Jiang, Brian M Broderick, Suhaib Salawdeh, Gerard John O'Reilly, Ahmed Y Elghazouli, H Alwahsh, A Bogdanovic, Z Rakicevic, I Gjorgjiev, A Poposka, Borjan Petreski, I Markovski	Testing of a Novel Self-Centring Steel Braced Frame on the Shake-Table in DYNLAB-IZIIS	on Earthquake Engineering	
		4.	Predrag Gavrilovic, Dimitar Jurukovski, Zoran Rakicevic, Aleksandra Bogdanovic	Structural design for seismic action or wind action, or both. Case studies	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021

No. 5	**Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations**			
1.	Name and surname	**Roberta Apostolska**		
2.	Date of birth	10.11.1967		
3.	Education level	Doctor of science		
4.	Title of scientific degree achieved	Doctor of technical science		
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution
		Graduated civil engineer	1991	Faculty of Civil Engineering, UKIM
		Master of Science	1995	UKIM-IZIIS
		Doctor of technical science	2003	UKIM-IZIIS
6.	Field, discipline and sub-discipline of M.Sc. Degree	Field	Discipline	Sub-discipline
		Technical Science	Civil Engineering	Earthquake Engineering
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline
		Technical Science	Civil Engineering	Earthquake Engineering
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution	Title in which he/she has been elected and in which field	
		UKIM-IZIIS	Professor	

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	n/a	n/a
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Reinforced concrete structures	Earthquake Engineering/IZIIS
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Design of seismic resistant building structures	Earthquake Engineering/IZIIS
		2.	Seismic resistance of existing buildings	Earthquake Engineering/IZIIS

10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year

		1.	Shendova V., **Apostolska R.**, Sesov V.	Tailor made seismic screening-essential tool for sustainable energy efficiency of buildings	Proc. of 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 2022
		2.	Kefajet Edip, **Roberta Apostolska**	Seismic risk assessment as a basis for sustainable urban development – pilot case Karposh district in Skopje	Proc. of 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 2022
		3.	**Apostolska Roberta,** Athanasopoulou Adamantia, Sousa Maria Luisa, Dimova Silvia	The Eurocodes adoption and implementation in the Balkans – challenges and opportunities	Proc. of International Symposium on Durrës Earthquakes and Eurocodes, Tirana, Albania, 2020
		4.	**R. Apostolska**, K. Runevski,Z. Bozhinovski, V. Shendova, Stojanovski, I. Markovski	Seismic performance of prestressed precast hollow core slabs-rc beam connections	17th World Conference on Earthquake Engineering, 2020
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sheshov V., **Apostolska R.** et al. IZIIS, RNM CMC, RNM UPT-FCE, Albania AUTH, Greece– EUCENTRE, Italy	*ISRA: Integrative strengthening of seismic risk awareness, UCPM-2022-PP*	European Union Civil Protection Mechanism (UCPM) /2022-2024
		2.	Sheshov V., Apostolska R. et al. IZIIS, RNM IKS, RNM UPT-FCE, Albania AUTH, Greece– EUCENTRE, Italy	*CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830*	European Union Civil Protection Mechanism (UCPM) /2020-2022

		3.	Apostolska R. et al. Bauhaus Uni, Weimar, Germany, IZIIS, RNM RUB, Bochum, Germany University of Osijek, Croatia University of Aveiro, Portugal	*Partnership for virtual laboratories in civil engineering, PARforCE*	ERASMUS+ Strategic Partnership ID: KA226-409D7678, 2021-2023
		4.	Sheshov V., Apostolska R. et al. NALAS, France MoI- Montenegro MoT- Bashkia Tirane, Albania IZIIS, RNM IPH- Podgorica, Montenegro UZGF, Croatia	*L2BR: Learn to be Resilient ; UCPM-2020-KN-AG; GA-101017950*	European Union Civil Protection Mechanism (UCPM) /2020-2022
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Shendova V.; **Apostolska R.;** Jekic G.; Zlateski A.; Delova E.; Zurovski A.	Анализа на постојна конструкција на објектот на Македонски Телеком АД - Скопје во Струмица	Извештај ИЗИИС 2022-49
		2.	Sesov V., **Apostolska R.,** Shendova V. et al.	High-Level Seismic Screening of the Structures of Municipal Buildings in North Macedonia	Report IZIIS 2022-35
		3.	Shendova V.; Sheshov V.; **Apostolska R.;** Bojadjieva J.; Edip K.; Zurovski A.; Ivanovski D.	Сеизмички скрининг на конструкцијата на објектот Служба за ментално здравје за деца и младинци „Младост “ при ЈЗУ Здраствен Дом ,Скопје	Извештај ИЗИИС 2022-27
		4.	Sesov V., **Apostolska R.,** Shendova V. et al.	High-Level Seismic Screening of the Structures of Medical Facilites in North Macedonia	Report IZIIS 2021-58

		5.	Шендова В., Божиновски Ж. **Апостолска Р.,** Јекиќ Г., Стојановски Б., Журовски А., Делова Е.	Анализа на постојната состојба на конструкцијата на објектот ЈЗУ Универзитетска Клиника за Хематологија, Клинички центар „Мајка Тереза“ во Скопје	Report IZIIS 2021-34
		6.	Sesov, V., **Apostolska, R.,** Sendova, V., Salic, R., Zurovski, A., Poposka, M.	Integrating Seismic Risk Consideration into Enegry Efficiency Investments in Western Balkans, Activity 1_Baseline Definition, Technical Proposal Selection #1265632	Report IZIIS 2020-33
		7.	Necevska-Cvetanovka G., **Apostolska, R.,** Sendova, V., Krstevska L. et. al	Seismic resiliance and strengthening of precast industrial buildings with concrete claddings - shaking table tests of real scale models -	Report IZIIS 2017 - 31
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		/	
	11.2.	M. Sc. theses		3	
	11.3.	Doctoral dissertations		5	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Shendova V., **Apostolska R.,** Sheshov V.	Taylor-made seismic screening - essential tool for sustainable energy efficiency of buildings	Proc. of the Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania, 2022
		2.	L. Abrahamczyk, M. Mirboland, Ch. Koch, D. Penava, R. Höffer, **R. Apostolska**, N. Lopes, U. Kähler	Holographic/Virtual Experiments for Higher Education in Structural Engineering	10th International Congress of Croatian Society of Mechanics, 2022
		3.	Shendova V., **Apostolska R.,** Vitanova M.	Structural Classification of Building and Bridge Assets in R.N. Macedonia	Proc. of EU SERA Balkans Seismic Risk Workshop, Belgrade, Serbia 2019

		4.	G. Necevska - Cvetanovska , **R. Apostolska** , J. Bojadjiev , A. Zurovski, V. Sigmund, I. Guljas, D. Varevac	Method for seismic upgrading of masonry infills in RC buildings	Proc. of 16 ECEE, 2018	
		5.	Pira V., **Apostolska R.**	Innovative solutions for dry moment resisting beam-column dowel connections in precast industrial buildings	Proc. of 16 ECEE, 2018	
	12.2.	vidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years.				
		No.	Authors	Title	Publisher/year	
		1.	Sheshov, V., **Apostolska, R.,** Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering , Volume 20, pages795–817 (2022)	
		2.	**Apostolska, R.,** Shendova, V., Necevska-Cvetanovska, G.	The need of integrated renovation of the existing buiding stock in North Macedonia.	European Journal of Environmental and Civik Engineering (2020). doi/full/10.1080/19648189.2020.1798816.	
		3.	**Apostolska R.,** Necevska-Cvetanovska G., Shendova V., Bojadjieva J	Seismic Performance Assessment of “Hybrid” Structures using Two-Level Multy Group GIS Oriented Approach: Case Studies	Springer, Bulletin of Earthquake Engineering, April 2018, DOI 10.1007/s10518-018-0366-0.	
	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/ Conference	Year
		1.	**Apostolska Roberta,** Athanasopoulou Adamantia, Sousa Maria Luisa, Dimova Silvia	The Eurocodes Balkan Summer School 2021: sharing knowledge for better seismic resilience	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022

		2.	Sesov, V., Borzi, B., **Apostolska, R**., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		3.	**Apostolska R.,**	CRISIS project: Comprehensive Risk Assessment of Basic Services and Transport Infrastructure	SUZI & EFEHR Seismic Risk, Recovery and Resilience Workshop, Belgrade, Serbia	2022
		4.	Sheshov, V., **Apostolska, R.,** Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salica, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in Durres, Albania, from science to practice	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021
		5.	**Apostolska R.,** Siljanovski A. and G. Necevska-Cvetanovska	Influence of hysteresis model parameters On seismic performance of structures Based on energy indicators	COMPDYN 2019 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece	2019
		6.	**Apostolska R.**	Seismic assessment and retrofit of typical pre-code school masonry building – case study	SURECON Workshop - A roadmap for a SUstainable integrated REtrofit of CONcrete buildings, Ispra, Italy	2018

No. 6	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	Prof. Dr Violeta Mircevska			
2.	Date of birth	30.11.1957			
3.	Education level	Doctor of technical sciences			
4.	Title of scientific degree achieved	Full professor in UKIM-IZIIS, Skopje			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Bachelor of Civil Engineering	1982	Faculty of Civil Engineering, UKIM, Skopje	
		Master of Technical Sciences	1995	UKIM-IZIIS, Skopje	
		Doctor of Technical Sciences	2002	UKIM-IZIIS, Skopje	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Techical Sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Techical Sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS, Skopje		Full Professor	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Seismic design of dams	Earthquake engineering / UKIM-IZIIS, Skopje	
		2.	Finite element analysis	Earthquake engineering / UKIM-IZIIS, Skopje	
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
		No.	Title of the subject	Curriculum /institution	

		1.	Seismic design of dams	Earthquake engineering / UKIM-IZIIS, Skopje
		2.	Rock mechanics	Earthquake engineering / UKIM-IZIIS, Skopje
		3.	Advanced analysis of structures and continua	Earthquake engineering / UKIM-IZIIS, Skopje
		4.	Nonlinear finite element analysis	Earthquake engineering / UKIM-IZIIS, Skopje
10.	Selected results achieved in the last five years			
	10.1.	Relevant published scientific papers (up to five)		
		No.	Authors	Title	Publisher/year
		1.	**Mircevska, V.,** Nastev, M., Nanevska, A., Jekic, G	Stability of Tailings Dams – Part 1: Evaluation of Eigen values,	Symposium on Landslides in the Adriatic-Balkan Region - ReSyLAB & 9th scientific and expert conference GEO-EXPO, 23-25 October 2019
		2.	**Mircevska, V.,** Nanevska, A., Nastev, M	Comparison of two seismic slope stability methods	European Conference On Earthquake Engineering & Seismology, pg. 90-98, 04-10 September 2022, Bucharest, Romania
		3.	**Mircevska, V.,** Nastev, M., Nanevska, A., Zafirov,	Quantification of Hydrodynamic Effects in Complex Dam-Fluid Domain Using the Hydrodynamic Influence Matrix	International Conference on Multi-scale Computational Methods for Solids and Fluids, 30 June-02 July 2021, Split, Croatia,
		4.	Nanevska, A., **Mircevska, V.**	Aspects for evaluating the seismic stability of tailings dams,	European Conference On Earthquake Engineering & Seismology, pg. 154-163, 04-10 September 2022, Bucharest, Romania.
		5.	**Violeta Mircevska,** Miroslav Nastev, Ana Nanevska	*SEISMIC SLOPE STABILITY IN TAILINGS DAM: DISCREPANCY BETWEEN THE IMPROVED FE-NEWMARK METHOD AND MOHR COULOMB MATERIAL MODEL*	ASSOCIATION OF CIVIL ENGINEERS OF SERBIA, 2021

	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	-	-	-
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Continuous work on software for the analysis of all types of dams (adequate to a written book on dam analysis	*ADAD-IZIIS*	Section 300-Engineering structures and software – IZIIS
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		-	-	-	-
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		/	
	11.2.	M. Sc. theses		2	
	11.3.	Doctoral dissertations		3	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research paperspublished in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Nanevska Ana, **Mircevska Violeta**, Nastev Miroslav	Discrete Finite Element Model for Safety Evaluation of Arch-dams	Proceedings of ECCOMAS MSF 5th International Conference on Multi-scale Computational Methods for Solids and Fluids, 30 June-
		2.	Горан Јакимовски, **Виолета Мирчевска**	ПРИОД КОН ДЕФИНИРАЊЕ НА СОПСТВЕНИ ПЕРИОДИ И ФОРМИ НА ФЛЕКСИБИЛНО СПРЕГНАТ СИСТЕМ	ПЕТТИ СИМПОЗИУМ НА ДГМ – 2020

		3.	**Mircevska Violeta**, Durgevic Slobodan, Nanevska Ana, Gjorgeska Irena	Dynamic response of arch-dams using ADAD-IZIIS software	Proceedings of 14th International Scientific Conference INDIS 2018, 21-23 November 2018, Novi Sad, Serbia.
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Viktor Hristovski, **Violeta Mircevska**, Bruno Dujic and Mihail Garevski	Comparative dynamic investigation of cross-laminated wooden panel systems: Shaking-table tests and analysis, Advances in Structural Engineering, Volume 21 Issue 10, July 2018, 1421 – 1436, https://doi.org/10.1177/1369433217749766	2018
		2.	**Violeta Mircevska**, Ahmad Abo-El-Ezz, Irena Gjorgjeska, AlexSmirnoff & Miroslav Nastev	First-Order Seismic Loss Assessment at Urban Scale: A Case Study of Skopje, North Macedonia	Journal of Earthquake Engineering, Taylor and Francis,2019
		3.	**Violeta Mircevska,** Miroslav Nastev,Viktor Hristovski, Alen Harapin, Ana Nanevska	INTERACTIVE ALGORITHM FOR GEOMETRIC MODELLING DOUBLE-CURVATURE ARCH DAMS	BUIILDIING MATERIIJALII II MATERIIALS AND KONSTRUKCIIJE STRUCTURES, S O C I E T Y F O R M A T E R I A L S AN D S T R U C T U R E S T E S T I N G O F S E R B I A, 2019
		4.	**Violeta Mircevska**, Miroslav Nastev, Viktor Hristovski, Ivana Bulajic	Eigenvalue solution for arch dams: ADAD-IZIIS Software.	JCE Gradjevinar, 2018

		5.	**Violeta Mircevska,** Miroslav Nastev, Ana Nanevska	Seismic Slope Displacement of Tailings Dam: A Comparative Study between Modified Newmark and Mohr-Coulomb Models		Journal of Earthquake Engineering, Taylor and Francis,2021
		6.	**Violeta Mircevska**, Ana Nanevska, Miroslav Nastev, Trajce Zafirov	Containment lining solutions and hydrodynamic stability of tailings dam		Journal of Engineering Modeling DOI: 10.31534/engmod.2023.1.ri.04a
	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	**Violeta Mircevska,** Miroslav Nastev, Ana Nanevska, Trajce Zafirov	Quantification of Hydrodynamic Effects in Complex Dam-Fluid Domain Using the Hydrodynamic Influence Matrix	5th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, Croatia,	2021
		2.	**Violeta Mircevska**, Miroslav Nastev, Ana Nanevska	SEISMIC SLOPE STABILITY IN TAILINGS DAM: DISCREPANCY BETWEEN THE IMPROVED FE-NEWMARK METHOD AND MOHR COULOMB MATERIAL MODEL	ASSOCIATION OF CIVIL ENGINEERS OF SERBIA, 2021	2021
		3.	Наневска Ана., **Мирчевска Виолета,** Настев Мирослав	Хидраулична нестабилност на јаловишни брани	18ти Симпозиумна ДГКМ: Мониторинг, Проценка и Рехабилитација на конструкциии, 02-05 Октомври 2019 го д., Охрид, Р. С. Македонија.	2019

No. 7					
1.	Name and surname	Vlatko Sheshov			
2.	Date of birth	July 6, 1969			
3.	Education level	High			
4.	Title of scientific degree achieved	Doctor of Technical Science			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Doctor of Technical Science	2003	IZIIS - UKIM	
		Master of Science	1997	IZIIS - UKIM	
		Graduate Civil Engineer	1994	Civil Engineering - UKIM	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Civil Engineering	Earthquake Eng.	Geotechnical Eng	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Civil Engineering	Earthquake Eng.	Geotechnical Eng	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		IZIIS - UKIM		Professor, Dynamics of Soils and Foundations.	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Dynamics of Soils and Foundations	Earthquake Engineering, IZIIS	
		2.	Geotechnical Earthquake Engineering	Earthquake Engineering, IZIIS	
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Experimental and Numerical Methods in Earthquake Geotechnical Engineering	Earthquake Engineering, IZIIS	
		2.	Soil Structure interaction	Earthquake Engineering, IZIIS	
		3.	Advanced topics in soil dynamics	Earthquake Engineering, IZIIS	

10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Bojadjieva, Julijana, **Vlatko Sheshov**, Kemal Edip, and Toni Kitanovski.	Verification of a System for Sustainable Research on Earthquake-Induced Soil Liquefaction in 1-g Environments	MDPI, Geosciences/2022
		2.	**Sheshov, V.,** Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G, et all….	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Bull Earthquake Eng 20, 795–817 (2022). https://doi.org/10.1007/s10518-021-01271-1
		3.	Edip, K., **Sheshov, V**., Wu, W. & Bojadjieva J.	Numerical modelling of saturated boundless media with infinite elements	Springer, Acta Geotechnica/ 2021
		4.	Bojadjieva, J., **Sheshov, V.**, Edip, K. *et al.*	Local Site Effects in Definition of Seismic Design Parameters for Historical Monuments	Springer, Soil mechanics and foundation engineering/2020
		5.	Bojadjieva, J., **Sheshov, V.**, & Bonnard, C.	Hazard and risk assessment of earthquake-induced landslides—case study.	Springer, Landslides/ 2018
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022
		2.	NALAS, France MoI- Montenegro MoT- Bashkia Tirane, Albania IZIIS, RNM IPH- Podgorica, Montenegro UZGF, Croatia	L2BR: Learn to be Resilient ; UCPM-2020-KN-AG; GA-101017950	European Union Civil Protection Mechanism (UCPM) /2020-2022
		3.	Bauhaus Uni, Weimar, Germany, IZIIS, RNM RUB, Bochum, Germany University of Osijek, Croatia	Partnership for virtual laboratories in civil engineering, PARforCE	ERASMUS+ Strategic Partnership ID: KA226-409D7678, 2021-2023

	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Prof. Dr. Vlatko Sheshov Bogdanovic, A., Edip, K.	Report on state condition of structure – Building 48, Military base Ilinden Skopje	IZIIS/2020
		2.	Prof. Dr. Vlatko Sheshov, Prof. Dr. Zoran Rakicevic, Prof. Dr. Roberta Apostolska, Msc Aleksandar Zhurovski, Msc Angela Poposka, Msc Trajce Zafirov, Msc Jordanka Chaneva,	Feasibility study: Suitability of Multi-Layer Wall System (MLWS) implementation in nuclear power plant facilities	IZIIS 2018-61
		3.	Prof. Dr. Vlatko Sheshov, Prof. Dr. Roberta Apostolska, Prof. Dr. Veronika Sendova et al.	High-level seismic screening of the structures of medical facilities in North Macedonia	IZIIS 2021-58
		4.	Prof. Dr. Vlatko Sheshov Irena Gjorgeska	Geophysical survey for basic design project A4 Skopje - Blace	IZIIS 2021-49
		5.	Sheshov V. Edip K. Bojadjieva J. et al.	Report on consulting services in the field of research of the dynamic properties of soil and performing dynamic analyses using a dynamic triaxial system, for needs of team members of the scientific - researsh project	IZIIS 2022
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma			
	11.2.	M. Sc. theses		Toni Kitanovski	
	11.3.	Doctoral dissertations		Toni Kitanovski, Elena Angelova	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	**Sesov, V**., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., et al.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	EAEE, Third European Conference on Earthquake Engineering and
		2.	J. Bojadjieva, **V. Sheshov**, K. Edip, J. Chaneva, T. Kitanovski and D. Ivanovski.	Simulation of monotonic and cyclic triaxial tests on natural sand	IAEE, 17th World Conference on Earthquake Engineering/2021

		3.	Julijana Bojadjieva, **Vlatko Sheshov**, Kemal Edip, Radmila Shalic, Marta Stojmanovska, Roberta Apostolska, Stavroula Fotopoulou, Dimitris Pitilakis, NeritanShkodrani, Markel Babaleku, Francesca Bozzoni	Harmonized approach for mapping the earthquake-induced landslide hazard at the cross-border region between North Macedonia, Greece and Albania	5th Resylab, Regional Symposium on landslides, organized by ICL, Rijeka, Croatia 2022.
		4.	Vlatko Sesov, Roberta Apostolska, Radmila Salic, et al.	Building resilience societies through cross-border cooperation and European research networking - Crisis	SMiRT26 , Conference, 2022 Berlin, Germany
		5.	Vlatko Sheshov, Roberta Apostolska, Zivko Bozinovski, Marija Vitanova	Post-Earthquake Mission In Durres, Albania, From Science To Practice	Proceedings of 1st Croatian Conference on Earthquake Engineering
		6.	Vlatko Sheshov	Experimental investigations on performance of pile foundation in liquefied ground	SeismiCON 2019, 24th — 25th June 2019 | London, UK
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.	**Sheshov, V.,** Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021
		2.	Bojadjieva, J., **Sheshov, V**., Edip, K. et al.	Local Site Effects in Definition of Seismic Design Parameters for Historical Monuments	Springer, Soil mechanics and foundation engineering/2020
			Edip K., **Sheshov V.**, Wei W., Bojadjieva J.	Numerical modelling of saturated boundless media with infinite elements	Acta Geotech. 16, 2683–2692 (2021). https://doi.org/10.1007/s11440-020-01139-
	12.3.	Evidence on at least three participations in international meetings for the last four years			
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	**Sheshov, V.,** Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salica, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D.,	Post-earthquake mission in durres, albania, from science to practice	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021

		2.	Sesov V. et al.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	Third European Conference on Earthquake Engineering and Seismology, Bucharest	2022
		3.	Julijana Bojadjieva**, Vlatko Sheshov,** Kemal Edip, Jordanka Chaneva, Toni Kitanovski, Dejan Ivanovski	Comparison of cyclic simple shear and triaxial tests on natural sand	Proceedings of the XVII ECSMGE-2019 Geotechnical Engineering foundation of the future ISBN 978-9935-9436-1-3. (invited paper). Reykjavik, Iceland 1-6 September	2019

No. 8	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	Dragi Dojcinovski			
2.	Date of birth	20.06.1956			
3.	Education level	Ph. D			
4.	Title of scientific degree achieved	Ph. D.			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Graduated civil engineer	1980	Faculty of Civil Engineering, UKIM-Skopje	
		Master of Sciences	1995	UKIM-IZIIS, Skopje	
		Ph. D.	2005	UKIM-IZIIS, Skopje	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM -Institute of Earthquake Engineering and Engineering Seismology		Professor on subjects Engineering Seismology, Earthquake Engineering	

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
	No.	Title of the subject	Curriculum /institution	
	1.			
	2.			
9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
	No.	Title of the subject	Curriculum/institution	
	1.	Engineering Seismology	Earthquake Engineering, UKIM-IZIIS	
	2.			
9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
	No.	Title of the subject	Curriculum/institution	
	1.	Base of Earthquake Engineering and Engineering Seismology	Earthquake Engineering, UKIM-IZIIS	
	2.	Strong Earthquake Seismology and Microzonation	Earthquake Engineering, UKIM-IZIIS	

10.	Selected results achieved in the last five years				
10.1.	Relevant published scientific papers (up to five)				
	No.	Authors	Title	Publisher/year	
	1.	Poposka M., **Dojchinovski D.**, Stojmanovska M., Bozhinovski, Z., Gjorgjeska I	"Comparison of Structural Response to Mavrovo Earthquake Records, Original and Scaled"	Proceedings, 3rd European Conference on Earthquake Engineering and Seismology, Bucharest. Romania/2022,	
	2.	Stojmanovska M., **Dojchinovski D.**, Gjorgjiev I., Chapragoski G., Gjorgjeska I., Savic S.,	"Seismic Monitoring of Tailing Dams",	Proceedings, Second Conference On Tailings Dams",	

			Stanojevic M., Ilic B., Novicic S.,		Shtip, R.N. Macedonia/2022
		3.	**Dojcinovski D.**, Stojmanovska M., Gjorgjiev I., Poposka M., Chapragoski G., Gjorgjeska I., Milevski S., Koviloski V.	Seismic monitoring of dams – Mavrovo earthquake experience and results	Proceedings, 5th Congress on Dams, Struga, R.N.Macedonia/2021
		4.	I. Gjorgjeska, M. Stojmanovska, **D. Dojchinovski**, M. Poposka, G. Chapragovski,	Geophysical Site Characterization For Strong Motion Stations. A Case Study in North Macedonia	Proceedings, 1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia/ 2021
		5.	**Dojcinovski D.**, Stojmanovska M., Cernih D., Dimishkovska B., Gjorgjeska I.	The Impact of Griva earthquakes on structures damage	Proceedings, 16th European Conference on Earthquake Engineering, Thessaloniki, Greece /2018
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	**Dragi Dojcinovski**, principal coordinator	„Study on Supporting Structures for Earthquake Emergency Rescue" Program for international cooperation between Macedonia and PR. China, 2018-2019	IZIIS – Skopje/ 2019
		2.	**Dragi Dojcinovski**, principal coordinator	„ Study on strong ground motion simulation for structural seismic analysis "Bilateral Project with PR.China, 2016-2017	IZIIS – Skopje/ 2017
		3.			
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sheshov V., K. Edip, J. Bojadjieva, R. Shalic Makreska, M. Stojmanovska, **D. Dojchinovski**, I.Gjorgjeska, M. Poposka	"Definition of design seismic parameters for the Suhorica dam site"	IZIIS/2022
		2.	**D. Dojchinovski,** I. Gjorgjiev, M. Stojmanovska,, V. Koviloski, B. Blazeski	Measurement of the impact of an explosion in the process of surface exploitation of limestone in the "Dobarski Žeden" quarry of Makaljb Kompani located near the village Grupcin	IZIIS/2022
		3.	I.Gjorgjeska, Sheshov V., **D. Dojchinovski**	Camp Nothing Hill, Leposaviq - Kosovo Geophysical Study: 2D MASW Survey	IZIIS/2021
		4.	Sheshov V., **D. Dojchinovski**, M. Stojmanovska, I.Gjorgjeska, G. Chapragoski, M. Poposka	Kosova E Re Power Plant Project (KRPP), Volume I, Seismic Study - Part 2,	IZIIS/2019
		5.	Z. Bozinovski, **D. Dojchinovski**,	Usability of the "Tisovec" tunnel	IZIIS/2018

			I. Gjorgjeska, A. Zurovski, G. Chapragovski, M. Poposka, E. Delova	for the existing operating mode with an assessment of the remaining operational life and a technical solution for conversion into a busy tunnel	

11.	Mentorship at undergraduate, master and doctoral studies		
	11.1.	Final examinations for award of diploma	/
	11.2.	M. Sc. theses	/
	11.3.	Doctoral dissertations	3 (on going)

12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Gjorgjeska I., Sheshov V., Stojmanovska M., Bojadjieva J., **Dojchinovski D.**, Edip K., Poposka M.	Multi-method approach for seismic site characterization in North Macedonia	EAEE, Third European Conference on Earthquake Engineering and Seismology/ 2022
		2.	Poposka M., **Dojchinovski D.**, Stojmanovska M., Gjorgjeska I., Chapragoski G.	Mavrovo Earthquake, Experience and Dynamic Structural Response	CroCEE, First Croatian Conference on Earthquake Engineering/2020
		3.	**Dojcinovski D.**, Bozinovski, Z., Stojmanovska M., Chapragoski G., Poposka M.,	"Analysis of Global Damage And Functioning Of Highway In Earthquakes Condition"	Disaster Prevention and Mitigation in the "Road & Belt" countries, Dalian University of Technology, China/2019
		4.	**Dojcinovski D.**, Stojmanovska M., Cernih D., Dimishkovska B., Gjorgjeska I	"The Impact of Griva earthquakes on structures damage"	16ECEE/ 16th European Conference on Earthquake Engineering /2017
		5.	**D. Dojcinovski**, M. Stojmanovska, M. Garevski, W. Guoxin, B. Dimiskovska, I. Gjorgjeska, N. Kuljic	"Old town core of Ohrid - seismic parameters for repair and strengthening of structures"	16WCEE/ 16th World Conference on Earthquake Engineering/2017
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years.			
		No.	Authors	Title	Publisher/year
		1.	Bojadjieva, J., Sheshov, V., Edip, K. and **Dojchinovski D.**	"Local Site Effects in Definition of Seismic Design Parameters for Historical Monuments"	Springer, Soil mechanics and foundation engineering/2020
		2.	Sinadinovski C., Pekevski L., **Dojcinovski D.**, Cernih D.,	"Comparative analysis of strong motion (SM) records from the July 2017 Ohrid seismic sequence"	Journal of Seismology /2018
		3.	Sh. Mustafa, **D. Dojcinovski**, G. Wang, Z. Elezaj	"Modelling of Synthetic Accelerograms for Locations in Kosovo"	J. Int. Environnemental Application & Science / 2017
	12.3.	Evidence on at least three participations in international meetings for the last four years			
		No.	Authors	Title of paper	International / Year

			meeting/conference	
1.	**Dojcinovski D.**, Stojmanovska M., Gjorgjiev I., Poposka M., Chapragoski G., Gjorgjeska I., Milevski S., Koviloski V.	Seismic monitoring of dams – Mavrovo earthquake experience and results	Proceedings, 5th Congress on Dams, Struga, R.N. Macedonia	2021
2.	**Dojcinovski D.**, D. Aleksovski, G. Mirakovski, M. Stojmanovska	Control of seismic effects of blasting for excavation of new supply tunnels of HPP “MATKA”	Macedonian Committee on Large Dams, 80 years of dam engineering in R. Macedonia	2018
3.	**D. Dojcinovski**, M. Garevski, W. Guoxin	“Definition of Seismic Strengthening Parameters for Cultural-Historic Monuments”	International Conference of Civil Engineering, 2017-ICCE, Tirana, Albania	2017
4.				

No. 9	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations

1.	Name and surname	Igor Gjorgjiev			
2.	Date of birth	9.4.1975			
3.	Education level	VIII			
4.	Title of scientific degree achieved	Doctor of technical sciences			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		High education	1999	Faculty of Civil Engineering	
		Magisterium	2004	IZIIS	
		Ph.D	2011	JNU-IZIIS	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS		Full professor	

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.		
		2.		
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Introduction to MATLAB and its application to engineering	Earthquake Engineering/ UKIM-IZIIS
		2.	Design of engineering steel structures	Earthquake Engineering/ UKIM-IZIIS
		3.	Steel structures	Earthquake Engineering/ UKIM-IZIIS
		4.	Finite Element Analysis	Earthquake Engineering/ UKIM-IZIIS
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Advanced application of MATLAB for solving engineering problems	Earthquake Engineering, IZIIS
		2.	Advanced analysis of structures and continua	Earthquake Engineering, IZIIS

		3.	Design and analysis of structures with seismic isolation and passive energy dissipation systems	Earthquake Engineering, IZIIS	
		4.	Advanced Analysis of Steel Structures	Earthquake Engineering, IZIIS	
		5.	Diagnostics and State Monitoring of Existing	Earthquake Engineering, IZIIS	
10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year
		1.	I. Gjorgjiev	FEM Analysis of Fiber Reinforced Rubber Bearings Under Vertical Load	3ECEES/2022
		2.	B. Petreski, I. Gjorgjiev	Combined Physical and Virtual Experimental Testing for Self-	3ECEES/2022
		3.	A. Zurovski I. Gjorgjiev	Establishing damage alarm thresholds for SHM based on parametric time- history analysis	3ECEES/2022
		4.	B. Petreski I. Gjorgjiev	Analytical model verification for improved performance-based design of MRF	1CroCEE / 2021
		5.	I.Gjorgjiev G. Jekikj A. Zurovski	Identification of dynamic properties of rc buildings in	1CroCEE / 2021
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	д-р Горан Јекиќ д-р Игор Ѓорѓиев др.	Scientific Project for 2019 financed by University "SS. Cyril and Methodius", Skopje, Method for Using of Experimentally Defined Sets of Modal Parameters for the Prediction of the Response of Building Structures under Seismic Excitation and Potential for Damage Detection	2020
		2.	д-р Драги Дојчиновки д-р Игор Ѓорѓиев др.	Bilateral Macedonian-Chinese Scientific Research Project for 2016-2017 financed by Ministry of Education and Science of Republic of Macedonia, Behavior of Tall Buildings under Seismic and Wind Force	2017

		3.	д-р Зоран Раќикевиќ д-р Александра Богрaновиќ д-р Игор Ѓорѓиев д-р Горан Јекиќ др.	Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe – SERA, H2020 Project, 2020	2020
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	проф. д-р Игор Ѓорѓиев, доц. д-р Горан Јекиќ	Примена на Матлаб за решавање на проблеми од конструктивно и земјотресно инженерство	УКИМ
		2.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
		2.			
		3.			
		4.			
		5.			
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		0	
	11.2.	M. Sc. theses		0	
	11.3.	Doctoral dissertations		0	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	I. Gjorgjiev	FEM Analysis of Fiber Reinforced Rubber Bearings Under Vertical Load	3ECEES/2022
		2.	B. Petreski, I. Gjorgjiev	Combined Physical and Virtual Experimental Testing for Self-Centring Concentrically Braced Frames	3ECEES/2022
		3.	A. Zurovski I. Gjorgjiev	Establishing damage alarm thresholds for SHM based on parametric time- history analysis	3ECEES/2022
		4.	B. Petreski I. Gjorgjiev	Analytical model verification for improved performance-based design of MRF	1CroCEE / 2021
		5.	I.Gjorgjiev G. Jekikj A. Zurovski	Identification of dynamic properties of RC buildings in Skopje by in-situ testing	1CroCEE / 2021

		6.	I. Gjorgjiev A. Poposka	Wind Action on Structures According to Eurocode	MASE / 2022
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.			
		2.			
	12.3.	Evidence on at least three participations in international meetings for the last four years			
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	I. Gjorgjiev	FEM Analysis of Fiber Reinforced Rubber Bearings Under Vertical Load	conference	2022
		2.	B. Petreski I. Gjorgjiev	Analytical model verification for improved performance-based design	conference	2021
		3.	I. Gjorgjiev A. Poposka	Wind Action on Structures According to Eurocode	conference	2022

No. 10	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations			
1.	Name and surname	Kemal Edip		
2.	Date of birth	13.11.1979		
3.	Education leve	Ph.D.		
4.	Title of scientific degree achieved	Doctor of technical science		
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution
		Bachelor diploma	2003	Civil Engineering Dept. Middle East Technical University, Ankara, Turkey
		Master of science	2005	Ruhr University Bochum, Germany
		Ph.D.	2013	Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline
		Engineering and Technology	Civil Engineering	Earthquake Engineering
7.	Field, discipline and sub-discipline of Ph.D.degree	Field	Discipline	Sub-discipline
		Engineering and Technology	Civil Engineering	Earthquake Engineering
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which
		Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)		Professor, Earthquake Engineering

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	-	-
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Geotechnical Earthquake Engineering	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		2.	Soil dynamics and foundations	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		3.	Project planning and management	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum/institution

		1.	Experimental and Numerical Methods in Earthquake Geotechnical Engineering	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		2.	Soil Structure interaction	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		3.	Advanced topics in soil dynamics	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
10	Selected results achieved in the last five years				
	10.1	Relevant published scientific papers (up to five)			
		No	Authors	Title	Publisher/year
		1.	Vitanova, M., Bogdanovic, A., Bozinovski, Z., **Edip, K**., Bojadzieva, J., Delova, E., Zafirov, T.	Seismic performance validation for RC building structures damaged by Durres earthquake, Mw6.4, 26 November 2019, Albania	Bull Earthquake Eng 20, 6527–6554 (2022). https://doi.org/10.1007/s10518-022-01453-5
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., **Edip, K**., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Bull Earthquake Eng 20, 795–817 (2022). https://doi.org/10.1007/s10518-021-01271-1
		3.	Bojadjieva J., Sheshov V., Edip K., Kitanovski T.	Verification of a System for ustainable Research on earthquake-Induced Soil Liquefaction in 1-g Environments	Geosciences. 2022; 12(10):363. https://doi.org/10.3390/geosciences12100363
		4.	Edip K., Sheshov V., Wei W., Bojadjieva J.	Numerical modelling of saturated boundless media with infinite elements	Acta Geotech. 16, 2683–2692 (2021). https://doi.org/10.1007/s11440-020-01139-9

		5.	K. Edip, V. Sesov, C. Butenweg, J. Bojadjieva,	Development of coupled numerical model for simulation of multiphase soil	Computers and Geotechnics,Volume 96,2018,Pages 118-131,ISSN 0266-352X,https://doi.org/10.1016/j.compgeo.2017.08.016.
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure ; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022
		2.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology Institute of Communication Studies, Skopje UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	ISRA: Integrative strengthening of seismic risk awareness; UPCM-2021	European Union Civil Protection Mechanism (UCPM) /2022-2024
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
	10.4	Published professional papers for the last five years (up to five)			

	.	No.	Authors	Title	Publisher/year
		1.	Edip, K. Dojchinovski, D. Sheshov, V. Shalic, R. Stojmanovska, M. Gjorgjeska, I. Kitanovski, T	Defining seismic parameters at a site KP 1055/1 KO Probishtip (In Macedonian)	IZIIS/2020-03
		2.	Sheshov, V. Bogdanovic, A. Edip, K.	Inspection report on the condition of Object 48 in the "Ilinden" Barracks – Skopje (In Macedonian)	IZIIS/2020
		3.	Gjorgjeska, I., Sheshov,V., Edip, K., Bojadjieva, J., Kitanovski, T., Ivanovski, D.	GeoRadar measurements for underground detection of installations on site within industrial complex Johnson Matty (In Macedonian)	IZIIS/2020-53
		4.	Edip, K., Dojchinovski, D., Sheshov, V., Shalic, R., Stojmanovska, M., Bojadjieva, J., Gjorgjeska, I., Poposka, M., Ivanovski, D.	Defining seismic parameters at the location KP 35 KO Bardovci, Skopje (In Macedonian)	IZIIS/2020-57
		5.	Bojadjieva, J., Dojchinovski, D.,Shalic, R., Edip, K., Stojmanovska, M., Gjorgjeska, I., Kitanovski, T., Capragoski, G., Tomic, D., Ivanovski, D.	Definition of seismic parameters of a site intended for the construction of a primary school in the village of Klukovec, KP 7/9, KO Gorno Orizari vgr, municipality of Veles (In Macedonian)	IZIIS/2022-39
11	Mentorship at undergraduate, master and doctoral studies				

.	11.1.	Final examinations for award of diploma		-	
	11.2.	M. Sc. theses		1. Dejan Ivanovski	
	11.3.	Doctoral dissertations		-	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	**K.Edip**, A.Bogdanovic, J.Bojadjieva, V.Sheshov	Assessment of damper effects in Soil Structure Interaction problems	EAEE, Third European Conference on Earthquake Engineering and Seismology/2022
		2.	**K.Edip**, V.Sheshov, J.Bojadjieva, T. Kitanovski, D.Ivanvoski	New infinite elements for simulation of saturated unbounded media	IAEE, 17th World Conference on Earthquake Engineering/2021
		3.	**K.Edip**, V.Sheshov, J.Bojadjieva, T. Kitanovski, D.Ivanvoski, I.Gjorgjeska	Pore pressure effects in seismic simulation of an earth dam	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years.			
		No.	Authors	Title	Publisher/year
		1.	**Edip K**., Sheshov V., Wei W., Bojadjieva J.	Numerical modelling of saturated boundless media with infinite elements	Acta Geotech. 16, 2683–2692 (2021). https://doi.org/10.1007/s11440-020-01139-9
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., **Edip, K**., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021

	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	**K.Edip**, A.Bogdanovic, J.Bojadjieva, V.Sheshov	Assessment of damper effects in Soil Structure Interaction problems	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., **Edip, K.,** Bogdanovic, A., Salica, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in durres, albania, from science to practice	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021
		3.	**Edip, K**. Sheshov, V. Bojadjieva, J. Bogdanovic, A.	Earthquake effects in assessment of an earth dam slope	5th Regional Symposium on Landslides in the Adriatic-Balkan Region 'Landslide Modelling and Applications' Rijeka (Croatia), 23-26 March 2022	2022

No. 11	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations.				
1.	Name and Surname	Aleksandra Bogdanovic			
2.	Date of birth	14.09.1979			
3.	Education level	VIII			
4.	Title of scientific degree achieved	Doctor of technical sciences			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		High education	2003	Ss. Cyril and Methodius University in Skopje, Faculty of Architecture	
		Magisterium	2006	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
		Ph.D	2014	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-Discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)		Associate professor, Earthquake Engineering	

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	-	-
	9.2.	List of subjects that the lecturer leads for the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Nonstructural elements	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		2.	New technologies for design of structures	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
	9.3.	List of subjects that the lecturer leads for the third cycle of studies		
		No.	Title of the subject	Curriculum /institution

		1.	Design and analysis of structure with seismic isolation and passive energy dissipation systems	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
10.	Selected results in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher / year
		1.	KK Kiran, Ehsan Noroozinejad Farsangi, Vahidreza Gharehbaghi, Aleksandra Bogdanovic	Rehabilitation of SDOF systems under air blast loading with a modified negative stiffness amplifying damper	Journal of Building Pathology and Rehabilitation/ 2022
		2.	Zoran Rakicevic, Aleksandra Bogdanovic, Ehsan Noroozinejad Farsangi, Abbas Sivandi-Pour	A hybrid seismic isolation system toward more resilient structures: Shaking table experiment and fragility analysis	Journal of Building Engineering/2021
		3.	Aleksandra Bogdanovic, Zoran Rakicevic, Ehsan Noroozinejad Farsangi	Shake table tests and numerical investigation of a resilient damping device for seismic response control of building structures	Structural Control and Health Monitoring/2019
		4.	Aleksandra Bogdanovic, Zoran Rakicevic	Optimal damper placement using combined fitness function	Frontiers in Built Environment/2019
		5.	Ersin Aydin, Ehsan Noroozinejad Farsangi, Baki Öztürk, Aleksandra Bogdanovic, Maciej Dutkiewicz	Improvement of building resilience by viscous dampers	Resilient structures and infrastructure/2019
	10.2.	Participation in scientific-research national and international projects (up to five)			
		No.	Authors	Title	Publisher / year
		1.	Istituto Universitario di Studi Superiori di Pavia Italy CENTRO EUROPEO DI FORMAZIONE E RICERCA IN INGEGNERIA SISMICA Italy PANEPISTIMIO PATRON Greece ARISTOTELIO PANEPISTIMIO THESSALONIKIS Greece LABORATORIO NACIONAL DE ENGENHARIA CIVIL Portugal COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES France	ERIES: Engineering Research Infrastructures for European Synergies	HORIZON-INFRA-2021-SERV-01-07/2022-2026

			UNIVERSITY OF BRISTOL United Kingdom Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE North Macedonia UNIVERSITA DEGLI STUDI DI GENOVA Italy THE UNIVERSITY OF WESTERN ONTARIO Canada TECHNISCHE UNIVERSITEIT EINDHOVEN Netherlands CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT France		
		2.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022
		3.	BAUHAUS-UNIVERSITAET WEIMAR Germany SVEUCILISTE JOSIPA JURJA STROSSMAYERA, OSIJEKU Croatia RUHR-UNIVERSITAET BOCHUM Germany Ss. CYRIL AND METHODIUS UNIVERSITY, SKOPJE The Republic of North Macedonia UNIVERSIDADE DE AVEIRO Portugal	PARFORCE: Partnership for virtual laboratories in civil engineering	Call 2020 Round 1 KA2 - Cooperation for innovation and the exchange of good practices KA226 - Partnerships for Digital Education Readiness/ 2021-2023
		4.	Eidgenössische Technische Hochschule Zürich (ETH) Centro Europeo di Formazione e Ricerca in Ingegneria Sismica (EUCE) Joint Research Centre – European Commission (JRC) Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA) Laboratório Nacional de	SERA: The Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe	Horizon 2020- INFRAIA-01-2016-2017 'Integrating Activities for Advanced Communities'/ 2017-2020

			Engenharia Civil (LNEC) University of Patras (UPAT) University of Bristol (UBRI) Institute of Earthquake Engineering and Engineering Seismology SS Cyril and Methodius University Skopje (IZIIS) The Chancellor, Masters and Scholars of the University of Cambridge (UCAM) Università degli Studi di Trento (UNITN) Universidade de Porto (UPORTO) Universidad Politecnica de Madrid (UPM) Bogazici Universitesi (BOUN) Aristotelio Panepistimio Thessalonikis (AUTH) Helmholtz Zentrum Potsdam Deutsches Geoforschungszentrum (GFZ) Koninklijk Nederlands Meteorologisch Instituut (KNMI) Institut National de Cercetare-Dezvoltare Pentru Fizica Pamantului (INFP) National Observatory of Athens (NOA) Uppsala Universitet (UU) Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC) Natural Environment Research Council (NERC) United Kingdom Euro-Mediterranean Seismological Centre (EMSC) Università degli Studi di Napoli Federico II (UNINA) Centre National de la Recherche Scientifique (CNRS) Analisi e Monitoraggio del Rischio Ambientale Scarl (AMRA) Stiftelsen NORSAR (NORSAR) Instytut Geofizyki Polskiej Akademii Nauk (IGPAS) Istituto Nazionale di Geofisica e Vulcanologia (INGV) Instituto Superior Técnico (IST) Bureau de Recherches Géologiques et Minières		

			(BRGM) Universitetet i Bergen (UiB) Norway		
		5.	Cracow University of Technology, Faculty of Civil Engineering, Cracow, Poland, UKIM-IZIIS	Dynamic testing with force vibration method of Infills and Masonry structures protected by deformable Polyurethanes	IZIIS 2020/2021
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	-	-	
	10.4.	Published professional papers in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	Aleksandra Boganović, Lidija Krstevska, Igor Markovski, Nikola Naumovski, Filip Manojlovski, Angela Popovska, Dejan Filipovski, Antonio Šoklarovski, Miroslav Stamenković, Marija Vitanova, Julijana Bojadžieva, Kemal Edip, Toni Kitanovski, Dejan Ivanovski, Vlatko Šešov, Zoran Rakićević.	Testing of permissible loads and other important characteristics of a steel bridge near the village of Krivolak.	IZIIS/2022
		2.	Aleksandra Boganović, Lidija Krstevska, Igor Markovski, Nikola Naumovski, Filip Manojlovski, Angela Popovska, Dejan Filipovski, Antonio Šoklarovski, Miroslav Stamenković, Marija Vitanova, Julijana Bojadžieva, Kemal Edip, Toni Kitanovski, Dejan Ivanovski, Vlatko Šešov, Zoran Rakićević.	Testing of permissible loads and other important characteristics of a RC bridge near the village of Krivolak.	IZIIS/2022
		3.	Vlatko Sheshov, Zhivko Bozhinovski, Aleksandra Bogdanović, Kemal Edip, Elena Delova, Antonio Šoklarovski, Aleksandar Žurovski	Report on stability analysis with a technical solution for strengthening the structure of Object 48, Ilinden Barracks.	IZIIS/2020
		4.	Rakicevic Z., Bogdanovic A., Manojlovski F., Shoklarovski A., Poposka A., Naumovski N., Markovski I., Filipovski D., Stamenkovski M., Keramitciev B.	Dynamic testing with forced vibration method of Infills and Masonry structures protected by deformable Polyurethanes in seismic areas	IZIIS/2020
		5.	L. Krstevska, A. Bogdanovic, I. Markovski, F. Manojlovski, A. Poposka, D. Filipovski, A. Shoklarovski	Seismic Certification of Cleanroom Systems According to AC156	IZIIS/2019

11.	Mentorship at undergraduate, master and doctoral studies			
	11.1.	Graduation works	0	
	11.2.	Master's theses	1	
	11.3.	Doctoral Dissertations	2	
12.	For mentors of doctoral theses, selected results in the last four/five years			
	12.1.	Evidence of published scientific research papers in international scientific journals or international scientific publications in the given field (up to six) in the last five years		
		No.	Authors	Title	Publisher / year
		1.	A.Bogdanovic, Z.Rakicevic, J.Bojadjieva, L.Krstevska, A. Poposka, F. Manojlovski, A. Shoklarovski, I. Markovski, D.Filipovski, N. Naumovski	3D Seismic network in urban environment-case study, Ohrid, N.Macedonia	3rd European conference on earthquake engineering & seismology Bucharest, Romania, 2022/3ECEES/2022
		2.	Zoram Rakicevic, Aleksandra Bogdanovic, Dimitar Jurukovski, Petar Gavrilovic	Design procedure of a telecommunication tower in Skopje, N. Macedonia under dynamic loads	3rd European conference on earthquake engineering & seismology Bucharest, Romania, 2022/3ECEES/2022
		3.	Marija Vitanova Radmila Salic, Aleksandra Bogdanovic, Kemal Edip, Daniel Tomic, Aleksandar Zhurovski	Analytical and experimental in-situ measured fundamental periods of vibration on different types of RC building structures	10th International Conference on Structural Health Monitoring of Intelligent Infrastructure, Porto, Portugal/2021
		4.	Theodoros Rousakis, Arkadiusz Kwiecien, Alberto Viskovic, Alper Ilki, Petra Tiller, Bahman Ghiassi, Andrea Benedetti, Matija Gams, Zoran Rakicevic, Omer Faruk Halici, Bogusław Zając, Łukasz Hojdys, Piotr Krajewski, Fabio Rizzo, Camilla Colla, Elena Gabrielli, Anastasios Sapalidis, Efthimia Papadouli, Vachan Vanian, Aleksandra Bogdanovic	Quick Reparation of Infills in RC Frames After Seismic Damages– Experimental Tests on Shaking Table	International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering/2021
		5.	Jamie Goggins, Yadong Jiang, Brian M Broderick, Suhaib Salawdeh, Gerard J O'Reilly, Ahmed Y Elghazouli, Hatim Alwahsh, Aleksandra Bogdanovic, Zoran Rakicevic, Igor Gjorgjiev, Angela Poposka, Borjan Petreski, Igor Markovski	Shake Table Testing of Self-Centring Concentrically Braced Frames	Eurosteel, Sheffield, UK/2021
		6.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in Durres, Albania, from science to practice	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
	12.2.	Evidence of at least two published research papers in international scientific journals with an		

		impact factor in the given field in the last five years			
		No.	Authors	Title	Publisher / year
		1.	M Vitanova, A Bogdanovic, Z Bozinovski, K Edip, J Bojadjieva, E Delova, T Zafirov	Seismic performance validation for RC building structures damaged by Durres earthquake, Mw6. 4, 26 November 2019, Albania	Springer, Bulletin of Earthquake Engineering/2022
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021
		3.	Zoran Rakicevic, Aleksandra Bogdanovic, Ehsan Noroozinejad Farsangi, Abbas Sivandi-Pour	A hybrid seismic isolation system toward more resilient structures: Shaking table experiment and fragility analysis	Elsevier, Journal of Building Engineering/2021
		4.	Ersin Aydin, Baki Ozturk, Aleksandra Bogdanovic, Ehsan Noroozinejad Farsangi	Influence of soil-structure interaction (SSI) on optimal design of passive damping devices	Elsevier/Structures/2020
		5.	Theodoros Rousakis, Alper Ilki, Arkadiusz Kwiecien, Alberto Viskovic, Matija Gams, Petra Triller, Bahman Ghiassi, Andrea Benedetti, Zoran Rakicevic, Camilla Colla, Omer Faruk Halici, Bogusław Zając, Łukasz Hojdys, Piotr Krajewski, Fabio Rizzo, Vachan Vanian, Anastasios Sapalidis, Efthimia Papadouli, Aleksandra Bogdanovic	Deformable Polyurethane Joints and Fibre Grids for Resilient Seismic Performance of Reinforced Concrete	Polymers, MPDI/2020
		6.	Theodoros Rousakis, Alper Ilki, Arkadiusz Kwiecien, Alberto Viskovic, Matija Gams, Petra Triller, Bahman Ghiassi, Andrea Benedetti, Zoran Rakicevic, Camilla Colla, Omer Faruk Halici, Bogusław Zając, Łukasz Hojdys, Piotr Krajewski, Fabio Rizzo, Vachan Vanian, Anastasios Sapalidis, Efthimia Papadouli, Aleksandra Bogdanovic	Deformable polyurethane joints and fibre grids for resilient seismic performance of reinforced concrete frames with orthoblock brick infills	Polymers, MPDI/2020
		7.	Ehsan Noroozinejad Farsangi, Aleksandra Bogdanovic, Zoran	Ambient vibration testings and field	Tech Science Press/Structural

			Rakicevic, Angela Poposka, Marta Stojmanovska		investigations of two historical buildings in Europe	Durability & Health Monitoring/2020
		8.	Aleksandra Bogdanovic, Zoran Rakicevic, Ehsan Noroozinejad Farsangi		Shake table tests and numerical investigation of a resilient damping device for seismic response control of building structures	Willey/Structural Control and Health Monitoring/2019
		9.	Aydin Demir, Hakan Ozturk, Kemal Edip, Marta Stojmanovska, A Bogdanovic, E Seismology		Effect of viscosity parameter on the numerical simulation of reinforced concrete deep beam behavior	Journal of Science and Technology/2018
	12.3.	Evidence of at least three participations in international meetings in the last four years				
		No	Authors	Title of the paper	International meeting/conference	Year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		2.	A. Bogdanovic, Z. Rakicevic, J. Bojadzieva, V. Sheshov, K. Edip A.Poposka, F. Manojlovski, A. Shoklarovski, I. Markovski, D. Filipovskiand N. Naumovski	3D Seismic network in urban environment	7th European Conference on Structural Control, Warsaw, Poland	2022
		3.	Jamie Goggins, Yadong Jiang, Brian M Broderick, Suhaib Salawdeh, Gerard John O'Reilly, Ahmed Y Elghazouli, H Alwahsh, A Bogdanovic, Z Rakicevic, I Gjorgjiev, A Poposka, Borjan Petreski, I Markovski	Experimental Testing of a Novel Self-Centring Steel Braced Frame on the Shake-Table in DYNLAB-IZIIS	17th World Conference on Earthquake Engineering	2021
		4.	Aleksandra Bogdanovic, Lidija Krstevska, Zoran Rakicevic, Igor Markovski, Dejan Filipovski, Nikola	IZIIS' Dynamic Testing Laboratory – Many Years of Contribution to	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021

			Naumovski, Angela Poposka, Filip Manojlovski, Antonio Shoklarovski	Earthquake Engineering		

No. 12	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations.			
1.	Name and Surname	Radmila Salic Makreska		
2.	Date of birth	12.06.1977		
3.	Education level	VIII		
4.	Title of scientific degree achieved	Doctor of technical sciences		
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution
		High education	2002	Ss. Cyril and Methodius University in Skopje, Faculty of Architecture
		Magisterium	2007	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		Ph.D	2015	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline
		Technical sciences	Civil Engineering	Earthquake Engineering
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-Discipline
		Technical sciences	Civil Engineering	Earthquake Engineering
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field
		Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)		Associate professor, Earthquake Engineering

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	-	-
	9.2.	List of subjects that the lecturer leads for the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Fundamentals of Seismic Risk	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
	9.3.	List of subjects that the lecturer leads for the third cycle of studies		
		No.	Title of the subject	Curriculum /institution

		1.	Seismic Risk	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
		2.	Seismic Hazard	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
10.	Selected results in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher / year
		1.	Milutinovic, Z., Salic Makreska, R., Tomic, D., Trajchevski, J.	Genealogy of development and codification of Yugoslavian earthquake resistant design	Springer, Bulletin of Earthquake Engineering/ 2022
		2.	Dragojevic, D., Salic Makreska, R., Milutinovic, Z.	Analysis of Exponent K based on „SHARE“ Project Data and its Implications on Importance Factors of EH 1998-1	Springer, Bulletin of Earthquake Engineering/ 2022
		3.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanovski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021
		4.	Markušic, S., Stanko, D., Penava, D., Trajber, D., Šalic, R.	Preliminary Observations on Historical Castle Trakoscan (Croatia) Performance under Recent ML≥5.5 Earthquakes	MDPI, Geosciences/2021
		5.	Dumurdjanov, N., Milutinovic, Z. & Salic, R.	Seismotectonic model backing the PSHA and seismic zoning of Republic of Macedonia for National Annex to MKS EN 1998-1:2012 Eurocode 8	Springer, Journal of Seismology/ 2020
	10.2.	Participation in scientific-research national and international projects (up to five)			
		No.	Authors	Title	Publisher / year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022

			UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy		
		2.	NALAS – Réseau des associations d'autorités locales d'Europe du Sud-Est, France MoI- Ministarstvo Unutrashnjih Poslova, Montenegro MoT- Bashkia Tirane, Albania IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology IPH- Zdravstvena Ustanova Institut za Javno Zdravjle Podgorica, Montenegro UZGF- Sveuchilishte u Zagrebu Gradevinski Fakultet, Croatia	L2BR: Learn to be Resilient ; UCPM-2020-KN-AG; GA-101017950	European Union Civil Protection Mechanism (UCPM) /2020-2022
		3.	Croatian Science Foundation (HRZZ) City of Dubrovnik Cathedral St. Jakov Šibenik Trakošćan Castle Department of Geophysics, Faculty of Science, University of Zagreb, Croatia Seismological Survey of Croatia, Department of Geophysics, Faculty of Science, University of Zagreb, Croatia Faculty of Geotechnical Engineering, University of Zagreb, Croatia Croatian Geological Survey, Zagreb, Croatia Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Croatia Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS),	SeisRICHerCRO: Seismic risk assessment of cultural heritage buildings in Croatia; HRZZ-IP-2020-02-3531	Croatian Science Foundation (HRZZ) / 2021-2025

			N. Macedonia Department of Earthquake Engineering at the Bogazici University, Istanbul, Turkey Department of Civil Engineering, Middle East Technical University, Ankara, Turkey Faculty of Civil Engineering, Bauhaus-Universität Weimar, Germany Faculty of Engineering and Physical Sciences, School of Civil Engineering, University of Leeds, United Kingdom		
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	-	-	
	10.4.	Published professional papers in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	Gjurovski, M., Sheshov, V., Salic, R., Stoilova, S., Dimitrovski, D.	Risk Assessment of the City of Skopje from natural disasters and other accidents	City of Skopje/2021
		2.	Salic, R., D. Tomic, M. Dimitrovski	Non-destructive testing of commertial building (B+G+6) located in Prishtina (Kosovo)	IZIIS/2021
		3.	Sesov, V., Apostolska, R., Sendova, V., Salic, R., Zurovski, A., Poposka, M.	Integrating Seismic Risk Consideration into Enegry Efficiency Investments in Western Balkans, Activity 1_Baseline Definition, Technical Proposal Selection #1265632	IZIIS/2020
		4.	Edip, K., D. Dojchinovski, V. Sheshov, R. Salic, M. Stojmanovska, I. Gjordjeska, T. Kitanovski, J. Chaneva, G. Chapragoski, M. Dimitrovski, M. Popovska, I. Zafirova, D. Ivanovski	Defining seismic parameters at a site KP 1055/1 KO Probishtip	IZIIS/2020
		5.	Shendova V., V. Micov, R. Salic, M. Vitanova, B. Stojanoski, D. Tomic, M. Dimitrovski, J. Trajchevski, Z. Neziri, B. Petrovski, T. Zafirov, A. Nanevska, A. Zlateski, K. Runevski, E. Delova	Static and seismic analysis of the building "Administrative building of Makstil in Skopje"	IZIIS/2020
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Graduation works		0	
	11.2.	Master's theses		1	
	11.3.	Doctoral Dissertations		3	
12.	For mentors of doctoral theses, selected results in the last four/five years				

	12.1.	Evidence of published scientific research papers in international scientific journals or international scientific publications in the given field (up to six) in the last five years			
		No.	Authors	Title	Publisher / year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	EAEE, Third European Conference on Earthquake Engineering and Seismology/2022
		2.	Salic, R., Neziri, Z., Dimitrovski, M., Milutinovic, Z., Trajchevski, J., Tomic, D.	Need for advanced Seismogenic Fault characterisation Study as a Basis for Reliable Seismic Hazard	IAEE, 17th World Conference on Earthquake Engineering/2021
		3.	Abarca, A., O-Reilly, G., Monteiro, R., Vitanova, M., Daniel, Y., Belloti, D., Di Meo, A., Zuccolo, E., Salic, R., Edip, K., Borzi, B., Sesov, V., Calvi, G.M., Offir, Y.	Regional Safety Assessment of Existing Bridge Infrastructure Exposed to Seismic Hazard	IAEE, 17th World Conference on Earthquake Engineering/2021
		4.	Milutinovic, Z., R. Salic	UN Assistance and Contribution to Development of Earthquake Engineering - European and Worldwide	IAEE, 17th World Conference on Earthquake Engineering/2021
		5.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in Durres, Albania, from science to practice	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
	12.2.	Evidence of at least two published research papers in international scientific journals with an impact factor in the given field in the last five years			
		No.	Authors	Title	Publisher / year
		1.	Milutinovic, Z., Salic Makreska, R., Tomic, D., Trajchevski, J.	Genealogy of development and codification of Yugoslavian earthquake resistant design	Springer, Bulletin of Earthquake Engineering/ 2022
		2.	Dragojevic, D., Salic Makreska, R., Milutinovic, Z.	Analysis of Exponent K based on „SHARE“ Project Data and its Implications on Importance Factors of EH 1998-1	Springer, Bulletin of Earthquake Engineering/ 2022
		3.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G.,	Reconnaissance analysis on buildings damaged during Durres earthquake	Springer, Bulletin of Earthquake Engineering/ 2021

			Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Mw6.4, 26 November 2019, Albania: effects to non-structural elements	
		4.	Markušic, S., Stanko, D., Penava, D., Trajber, D., Šalic, R.	Preliminary Observations on Historical Castle Trakoscan (Croatia) Performance under Recent ML≥5.5 Earthquakes	MDPI, Geosciences/2021
		5.	Dumurdjanov, N., Milutinovic, Z. & Salic, R.	Seismotectonic model backing the PSHA and seismic zoning of Republic of Macedonia for National Annex to MKS EN 1998-1:2012 Eurocode 8	Springer, Journal of Seismology/ 2020
		6.	Stanko, D., Z. Gulerce, S. Markusic, R. Salic	Evaluation of the site amplification factors estimated by equivalent linear site response analysis using time series and random vibration theory based approaches	Elsevier, Soil Dynamics and Earthquake Engineering/2018
		7.	Mihaljevic, J., P. Zupancic, N. Kuka, N. Kaludjerovic, R. Koci, S. Markusic, R. Salic, E. Dushi, E. Begu, Ll. Duni, M. Zivcic, S. Kovacevic, I. Ivancic, V. Kovacevic, Z. Milutinovic, M. Vakilinezhad, T. Fikret and Z. Gulerce	BSHAP Seismic Source Characterization Models for the Western Balkan Region	Springer, Bulletin of Earthquake Engineering/2017
		8.	Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N., Kaludjerovic, N., Kotur, N., Krmpotic, S., Kuk, K., and Stanko, D.	Reply to ‘‘Comment to BSHAP project strong ground motion database and selection of suitable ground motion models for the Western Balkan Region’’ by Carlo Cauzzi and Ezio Faccioli	Springer, Bulletin of Earthquake Engineering/2017
		9.	Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N., Kaludjerovic, N., Kotur, N., Krmpotic, S., Kuk, K., and Stanko, D.	BSHAP Project Strong Ground Motion Database and Selection of Suitable Ground Motion Models for the Western Balkan Region	Springer, Bulletin of Earthquake Engineering/2017
	12.3.	Evidence of at least three participations in international meetings in the last four years			

		No	Authors	Title of the paper	International meeting/conference	Year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		2.	Salic, R., Neziri, Z., Dimitrovski, M., Milutinovic, Z., Trajchevski, J., Tomic, D.	Need for advanced Seismogenic Fault characterisation Study as a Basis for Reliable Seismic Hazard	17th World Conference on Earthquake Engineering, Sendai, Japan	2021
		3.	Salic, R.	Seismic Hazard Zonation and Seismic Design Codes. A Regional Perspective.	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021

No. 13	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	Marta Stojmanovska			
2.	Date of birth	12.4.1974			
3.	Education level	VIII			
4.	Title of scientific degree achieved	Doctor of technical sciences			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		High education	2001	Faculty of Civil Engineering	
		Magisterium	2007	UKIM-IZIIS	
		Ph.D	2015	UKIM-IZIIS	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		UKIM-IZIIS		Associate professor	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.			
		2.			
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Engineering Seismology	Earthquake Engineering/ UKIM-IZIIS	
		2.	Timber Structures	Earthquake Engineering/ UKIM-IZIIS	
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Base of Earthquake Engineering and Engineering Seismology	Earthquake Engineering, IZIIS	
		2.	Seismology of strong earthquakes and seismic microzonation	Earthquake Engineering, IZIIS	
10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year

		1.	Poposka M., Dojchinovski D., Stojmanovska M., Bozhinovski, Z., Gjorgjeska I	"Comparison of Structural Response to Mavrovo Earthquake Records, Original and Scaled"	Proceedings, 3rd European Conference on Earthquake Engineering and
		2.	Stojmanovska M., Dojchinovski D., Gjorgjiev I., Chapragoski G., Gjorgjeska I., Savic S., Stanojevic M., Ilic B., Novicic	"Seismic Monitoring of Tailing Dams",	Proceedings, Second Conference On
		3.	Dojcinovski D., Stojmanovska M., Gjorgjiev I., Poposka M., Chapragoski G., Gjorgjeska I.,	Seismic monitoring of dams – Mavrovo earthquake experience and results	Proceedings, 5th Congress on Dams, Struga,
		4.	I. Gjorgjeska, M. Stojmanovska, D. Dojchinovski, M. Poposka, G. Chapragovski,	Geophysical Site Characterization For Strong Motion Stations. A Case Study	Proceedings, 1st Croatian Conference on Earthquake
		5.	Dojcinovski D., Stojmanovska M., Cernih D., Dimishkovska B., Gjorgjeska I.	The Impact of Griva earthquakes on structures damage	Proceedings, 16th European Conference on Earthquake
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022

		2.	NALAS – Réseau des associations d'autorités locales d'Europe du Sud-Est, France MoI- Ministarstvo Unutrashnjih Poslova, Montenegro MoT- Bashkia Tirane, Albania IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology IPH- Zdravstvena Ustanova Institut za Javno Zdravjle Podgorica, Montenegro UZGF- Sveuchilishte u Zagrebu Gradevinski Fakultet, Croatia	L2BR: Learn to be Resilient ; UCPM-2020-KN-AG; GA-101017950	European Union Civil Protection Mechanism (UCPM) /2020-2022
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sheshov V., K. Edip, J. Bojadjieva, R. Shalic Makreska, M. Stojmanovska, D. Dojchinovski, I.Gjorgjeska, M. Poposka	"Definition of design seismic parameters for the Suhorica dam site"	IZIIS/2022
		2.	Dojchinovski D., Gjorgjiev I., Stojmanovska M., Koviloski V., Blazheski D.	Measurement of the impact of an explosion in the process of surface exploitation of limestone in the "Dobarski Žeden" quarry of MAKALJB KOMPANI located near Grupchin village.	ИЗИИС/2022
		3.	Edip, K., D. Dojcinovski, V. Sheshov, R. Shalic, M. Stojmanovska, I. Gjorgjeska, T. Kitanovski, J. Caneva, G. Capragoski, M. Dimitrovski, M. Popovska, I. Zafirova, D. Ivanovski	Definion of design seismic parameters 1055/1 Probishtip	ИЗИИС/2020
		4.	Sheshov V., D. Dojchinovski, M. Stojmanovska, I.Gjorgjeska, G. Chapragoski, M. Poposka	Kosova E Re Power Plant Project (KRPP), Volume I, Seismic Study - Part 2,	IZIIS/2019
11.	Mentorship at undergraduate, master and doctoral studies				

	11.1.	Final examinations for award of diploma	0
	11.2.	M. Sc. theses	1
	11.3.	Doctoral dissertations	0

12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Gjorgjeska I., Sheshov V., Stojmanovska M., Bojadjieva J., Dojchinovski D., Edip K., Poposka M.	Multi-method approach for seismic site characterization in North Macedonia	EAEE, Third European Conference on Earthquake Engineering and Seismology/ 2022
		2.	Poposka M., Dojchinovski D., Stojmanovska M., Gjorgjeska I., Chapragoski G.	Mavrovo Earthquake, Experience and Dynamic Structural Response	CroCEE, First Croatian Conference on Earthquake Engineering/2020
		3.	Dojcinovski D., Bozinovski, Z., Stojmanovska M., Chapragoski G., Poposka M.,	"Analysis of Global Damage And Functioning Of Highway In Earthquakes Condition"	Disaster Prevention and Mitigation in the
		4.	Dojcinovski D., Stojmanovska M., Cernih D., Dimishkovska B., Gjorgjeska I	“The Impact of Griva earthquakes on structures demage”	16ECEE/ 16th European Conference on Earthquake Engineering /2017
		5.	D. Dojcinovski, M. Stojmanovska, M. Garevski, W. Guoxin, B. Dimiskovska, I. Gjorgjeska, N. Kuljic	“Old town core of Ohrid - seismic parameters for repair and strengthening of structures”	16WCEE/ 16th World Conference on Earthquake Engineering/2017
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.			

	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	Dojcinovski D., M. Stojmanovska, I. Gjorgjiev, M. Poposka, G. Capragoski, I. Gjorgjeska, S. Milevski, N. Kuljic, Vladimir Koviloski	Seismic monitoring of Dams-Mavrovo earthquake experience and results резултати	5th Congress on Dams Struga, R.N.Macedonia	2021

		2.	Dojcinovski D., Aleksovski D, Mirakovski G., Stojmanovska M.	Control of the seismic action from blasting for the excavation of the new supply tunnels of HPP "Matka"	Association Macedonian Committee for Large Dams, 80 years of dam engineering in the R.N.Macedonia	2018
		3.	D. Dojcinovski, M. Garevski, W. Guoxin	“Definition of Seismic Strengthening Parameters for Cultural-Historic Monuments”	International Conference of Civil Engineering, 2017-ICCE, Tirana, Albania	2017

No. 14	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations.				
1.	Name and Surname	Julijana Bojadjieva			
2.	Date of birth	24.10.1983			
3.	Education level	VIII			
4.	Title of scientific degree achieved	Doctor of technical sciences			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		High education	2007	Ss. Cyril and Methodius University in Skopje, Faculty of Civil Engineering	
		Magisterium	2009	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
		Ph.D	2015	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-Discipline	
		Technical sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)		Associate professor, Earthquake Engineering	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	-	-	
	9.2.	List of subjects that the lecturer leads for the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Geotechnical Earthquake Engineering	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		2.	Soil dynamics and foundations	Earthquake Engineering and Engineering	

				Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
	9.3.	List of subjects that the lecturer leads for the third cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Experimental and Numerical Methods in Earthquake Geotechnical Engineering	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		2.	Soil Structure interaction	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		3.	Advanced topics in soil dynamics	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
10.	Selected results in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher / year
		1.	**Bojadjieva, Julijana**, Vlatko Sheshov, Kemal Edip, and Toni Kitanovski.	Verification of a System for Sustainable Research on Earthquake-Induced Soil Liquefaction in 1-g Environments	MDPI, Geosciences/2022
		2.	Vitanova, M., Bogdanovic, A., Bozinovski, Z. Edip K., **Bojadjieva J**. et al.	Seismic performance validation for RC building structures damaged by Durres earthquake, Mw6.4, 26 November 2019, Albania	Springer, Bulletin of Earthquake Engineering/ 2022
		3.	Edip, K., Sheshov, V., Wu, W. & **Bojadjieva J**.	Numerical modelling of saturated boundless media with infinite elements	Springer, Acta Geotechnica/ 2021
		4.	**Bojadjieva, J**., Sheshov, V., Edip, K. *et al.*	Local Site Effects in Definition of Seismic Design Parameters for Historical Monuments	Springer, Soil mechanics and foundation engineering/2020
		5.	**Bojadjieva, J.,** Sheshov, V., & Bonnard, C.	Hazard and risk assessment of earthquake-induced landslides—case study.	Springer, Landslides/ 2018
	10.2.	Participation in scientific-research national and international projects (up to five)			
		No.	Authors	Title	Publisher / year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022

			of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy		
		2.	NALAS – Réseau des associations d'autorités locales d'Europe du Sud-Est, France MoI- Ministarstvo Unutrashnjih Poslova, Montenegro MoT- Bashkia Tirane, Albania IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology IPH- Zdravstvena Ustanova Institut za Javno Zdravjle Podgorica, Montenegro UZGF- Sveuchilishte u Zagrebu Gradevinski Fakultet, Croatia	L2BR: Learn to be Resilient ; UCPM-2020-KN-AG; GA-101017950	European Union Civil Protection Mechanism (UCPM) /2020-2022
		3.	EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology	ERIES) Engineering Research Infrastructures for European Synergies	Horizon Europe / 2022-2026
		4.	Bauhaus-University Weimar (BUW), Ruhr University Bochum (RUB), University Aveiro (UA), University Osijek (UNIOS), and Institute of Earthquake Engineering and Engineering Seismology (IZIIS).	PARFORCE - Partnership for Virtual Laboratories in Civil Engineering	Erasmus + Programme, Horizon Europe (2021-2023)
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	-	-	
	10.4.	Published professional papers in the last five years (up to five)			
		No.	Authors	Title	Publisher / year
		1.	Sheshov V. Edip K. Bojadjieva J. et al.	REPORT on CONSULTING SERVICES IN THE FIELD OF RESEARCH of the dynamic properties of soil and performing dynamic analyses	IZIIS/2022

				using a dynamic triaxial system ,for needs of team members of the scientific - researsh project ,,ElectroSoil '";	
		2.	Bojadjieva J., Edip K, Sheshov V.. et al.	Дефинирање на сеизмички параметри за реконструкции на погон флотација (дел за флотирање на бакар) во Рудникот за бакар и злато Бѕчим - Радовиш, КП 630/8 КО Топилница ,Радовиш.	IZIIS/2022
		3.	Sheshov V.; Vitanova M.; Bojadjieva J.; Jekic G.	Residential Seismic Survery Report Evaluation of Seismic Stability of Leased Residential Property 4th street 251,Bardovci,Skopje,Republic of North Macedonia;	IZIIS/2021
		4.	Едип, К., Д. Дојчиновски, В. Шешов, Р. Шалиќ, М. Стојмановска, И. Ѓорѓеска, Т. Китановски, Ј. Чанева, Г. Чапрагоски, М. Димитровски, М. Поповска, И. Зафирова, Д. Ивановски	Дефинирање на сеизмички параметри на локација КП 1055/1 КО Пробиштип	ИЗИИС/2020
		5.	Bojadjieva J.; Edip K.; Sheshov V.; Dojcinovski D.; Bogdanovic A.; Stojmanovska M.; Salic R.; Vitanova M.; Kitanovski T.; Gjorgjeska I.;	ИЗИИС -ИН -СИТУ ГЕО - Лабараторија;	ИЗИИС/2021
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Graduation works		0	
	11.2.	Master's theses		4	
	11.3.	Doctoral Dissertations		1	
12.	For mentors of doctoral theses, selected results in the last four/five years				
	12.1.	Evidence of published scientific research papers in international scientific journals or international scientific publications in the given field (up to six) in the last five years			
		No.	Authors	Title	Publisher / year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	EAEE, Third European Conference on Earthquake Engineering and Seismology/2022
		2.	Salic, R., Neziri, Z., Dimitrovski, M., Milutinovic, Z., Trajchevski, J., Tomic, D.	Need for advanced Seismogenic Fault characterisation Study as a Basis for Reliable Seismic Hazard	IAEE, 17th World Conference on Earthquake Engineering/2021
		3.	Abarca, A., O-Reilly, G., Monteiro, R., Vitanova, M., Daniel, Y., Belloti, D., Di Meo, A., Zuccolo, E., Salic, R., Edip,	Regional Safety Assessment of Existing Bridge Infrastructure Exposed to Seismic Hazard	IAEE, 17th World Conference on Earthquake Engineering/2021

			K., Borzi, B., Sesov, V., Calvi, G.M., Offir, Y.		
		4.	Milutinovic, Z., R. Salic	UN Assistance and Contribution to Development of Earthquake Engineering - European and Worldwide	IAEE, 17th World Conference on Earthquake Engineering/2021
		5.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in Durres, Albania, from science to practice	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
	12.2.	Evidence of at least two published research papers in international scientific journals with an impact factor in the given field in the last five years			
		No.	Authors	Title	Publisher / year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	EAEE, Third European Conference on Earthquake Engineering and Seismology/2022
		2.	J. Bojadjieva, V. Sheshov, K. Edip, J. Chaneva, T. Kitanovski and D. Ivanovski.	SIMULATION OF MONOTONIC AND CYCLIC TRIAXIAL TESTS ON NATURAL SAND	IAEE, 17th World Conference on Earthquake Engineering/2021
		3.	J. Bojadjieva, V. Sheshov, K. Edip, A. Bogdanovic, I. Gjorgjeska, T. Kitanovski and D. Ivanovski.	In situ geotechnical laboratory in urban environment	ICONHIC 2022, Athens, Greece
		4.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Jordanka Chaneva, Toni Kitanovski, Dejan Ivanovski.	Comparison of cyclic simple shear and triaxial tests on natural sand	Proceedings of the XVII ECSMGE-2019 Geotechnical Engineering foundation of the future ISBN 978-9935-9436-1-3. (invited paper). Reykjavik, Iceland 1-6 September, 2019.
		5.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Radmila Shalic, Marta Stojmanovska, Roberta Apostolska, Stavroula Fotopoulou, Dimitris Pitilakis, NeritanShkodrani, Markel Babaleku, Francesca Bozzoni, Antonella di Meo.	Harmonized approach for mapping the earthquake-induced landslide hazard at the cross-border region between North Macedonia, Greece and Albania	5th Resylab, Regional Symposium on landslides, organized by ICL, Rijeka, Croatia 2022.
		6.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Jordanka	GIS-based assessment of liquefaction potential for	ICEGE, Rome, Italy, 2019.

			Chaneva, Toni Kitanovski, Dejan Ivanovski.	selected earthquake scenarios		
	12.3.	Evidence of at least three participations in international meetings in the last four years				
		No	Authors	Title of the paper	International meeting/conference	Year
		1.	J. Bojadjieva, V. Sheshov, K. Edip, A. Bogdanovic, I. Gjorgjeska, T. Kitanovski and D. Ivanovski.	In situ geotechnical laboratory in urban environment	ICONHIC 2022, Athens, Greece	2022
		2.	**Julijana Bojadjieva,** Vlatko Sheshov, Kemal Edip, Jordanka Chaneva, Toni Kitanovski, Dejan Ivanovski.	Comparison of cyclic simple shear and triaxial tests on natural sand	*Proceedings of the XVII ECSMGE-2019 Geotechnical Engineering foundation of the future ISBN 978-9935-9436-1-3. (invited paper*). Reykjavik, Iceland 1-6 September, 2019.	2019
		3.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Radmila Shalic, MartaStojmanovska, Roberta Apostolska, Stavroula Fotopoulou, Dimitris Pitilakis, NeritanShkodrani, Markel Babaleku, Francesca Bozzoni, Antonella di Meo.	Harmonized approach for mapping the earthquake-induced landslide hazard at the cross-border region between North Macedonia, Greece and Albania	5th Resylab, Regional Symposium on landslides, organized by ICL	2022

No. 15	Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations				
1.	Name and surname	Marija Vitanova			
2.	Date of birth	27.06.1979			
3.	Education level	PhD			
4.	Title of scientific degree achieved	Doctor of technical sciences			
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution	
		Bachelor of Civil Engineering	2002	Ss. Cyril and Methodius University in Skopje, Faculty of Civil Engineering	
		Master of Technical Sciences	2007	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
		Doctor of Technical Sciences	2015	Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline	
		Technical Sciences	Civil Engineering	Earthquake Engineering	
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field	
		Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)		Associate professor, Earthquake Engineering	
9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies				
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	-	-	
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies			
		No.	Title of the subject	Curriculum /institution	
		1.	Bridges, transport infrastructural systems	Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)	

		2.	Designing of engineering steel structures		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		3.	Fundamentals of Seismic Risk		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies			
		No.	Title of the subject		Curriculum /institution
		1.	Designing of transport infrastructural systems in seismic regions		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		2.	Repair and strengthening of engineering structures		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		3.	Advanced analysis of steel structures		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		4.	Diagnostics and State Monitoring of Existing Structures		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
		5.	Seismic risk		Earthquake Engineering/Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Vitanova, M., Bogdanovic, A., Bozinovski, Z., Edip, K., Bojadzieva, J., Delova, E., Zafirov, T.	Seismic performance validation for RC building structures damaged by Durres	Springer, Bulletin of Earthquake Engineering/ 2022
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanovski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019,	Springer, Bulletin of Earthquake Engineering/ 2021

		3.	Vitanova, M., Bojadzieva, J., Edip, K., Sheshov, V., Hristovski, V.	Soil-structure effects on assessment of seismic response of girder bridges	Proceedings, 3rd European Conference on Earthquake Engineering and Seismology, Bucharest, Romania, 2022
		4.	Vitanova, M., Salic, R., Bogdanovic, A., Edip, K., Tomic, D.	Analytical and experimental in-situ measured fundamental periods of vibration on	Proceedings, 10th International Conference on Structural Health Monitoring of Intelligent Infrastructure, Porto, Portugal
		5.	Vitanova, M., Bojadzieva, J., Micajkov, S.	Geo-referenced inventory toward seismic safety of	Proceedings, IABSE Congress, Structural Engineering for Future Societal Needs, Ghent,
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020-2022
		2.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology Institute of Communication Studies, Skopje UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	ISRA: Integrative strengthening of seismic risk awareness; UPCM-2021	European Union Civil Protection Mechanism (UCPM) /2022-2024
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year

		1.			
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sheshov, V., Vitanova, M., Bojadzieva, J., Jekic, G.	Pesidential seismic survey report, Evaluation of the seismic stability of leased residential property	Report IZIIS 2022-18 Report IZIIS 2022-19 Report IZIIS 2022-20 Report IZIIS 2022-21
		2.	Bogdanovic, A. Krstevska, L. Rakikevikj, Z., Vitanova, M., Bojadzieva, J.	Detailed screening and analysis of the military steel bridge in Krivolak village with trial load testing	Report IZIIS 2022-42
		3.	Bogdanovic, A. Krstevska, L. Rakikevikj, Z., Vitanova, M., Bojadzieva, J.	Detailed screening and analysis of the military concrete bridge in Krivolak village with trial load testing	Report IZIIS 2022-43
		4.	Vitanova, M., Jekikj, G., Naumovski, N., Poposka, A., Manojlovski, F., Shoklarovski, A.	Detailed Visual Screening of the building 33, Millitary structure “Jane Sandanski”, Shtip	Report IZIIS 2022-01
		5.	Shendova V., Micov V., Shalic R., Vitanova M.	Analysis of Existing State of the Administrative Building of MAKSTIL, Skopje	Report IZIIS 2020-68
11.	Mentorship at undergraduate, master and doctoral studies				
	11.1.	Final examinations for award of diploma		-	
	11.2.	M. Sc. theses		-	
	11.3.	Doctoral dissertations		-	
12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	EAEE, Third European Conference on Earthquake Engineering and Seismology/2022
		2.	Abarca, A., O-Reilly, G., Monteiro, R., Vitanova, M., Daniel, Y., Belloti, D., Di Meo, A., Zuccolo, E., Salic, R., Edip, K., Borzi, B., Sesov, V., Calvi, G.M., Offir, Y.	Regional Safety Assessment of Existing Bridge Infrastructure Exposed to Seismic Hazard	IAEE, 17th World Conference on Earthquake Engineering/2021

		3.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in Durres, Albania, from science to practice	1CROCEE-1st Croatian Conference on Earthquake Engineering, /2021
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.	Vitanova, M., Bogdanovic, A., Bozinovski, Z., Edip, K., Bojadzieva, J., Delova, E., Zafirov, T.	Seismic performance validation for RC building structures damaged by Durres earthquake, Mw6.4, 26 November 2019, Albania	Springer, Bulletin of Earthquake Engineering/ 2022
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	Reconnaissance analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021
	12.3.	Evidence on at least three participations in international meetings for the last four years			
		No.	Authors	Title of paper	International meeting/conference	Year
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., Bojadjieva, J., Vitanova, M., Salic, R., Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F., Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.	Seismic resilience through cross-border cooperation and European research networking - CRISIS project	Third European Conference on Earthquake Engineering and Seismology, Bucharest, Romania	2022
		2.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salica, R., Jekic, G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J.	Post-earthquake mission in durres, albania, from science to practice	1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia	2021
		3.	Vitanova, M., Sesov, V., Hristovski, V., Micov, V., Edip, K.	Assessment of SSI effects on the seismic response of multi span RC girder bridges	17th World Conference on Earthquake Engineering, Sendai, Japan	2021

No. 16	**Data on lecturers teaching within the curriculums of the first, the second and the third cycle of studies and mentors of doctoral dissertations**			
1.	Name and surname	**Goran Jekic**		
2.	Date of birth	13.07.1978		
3.	Education level	Ph.D.		
4.	Title of scientific degree achieved	Doctor of technical science		
5.	Where and when the lecturer accomplished his/her education and acquired a scientific degree	Education	Year	Institution
		Graduated civil engineer	2005	Ss Cyril and Methodius University in Skopje, Faculty of Civil Engineering,
		Master of science	2010 2012	Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS) National Graduate Institute for Policy Studies – GRIPS, Tokio, Japan
		Ph.D.	2016	Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
6.	Field, discipline and sub-discipline of M.Sc. degree	Field	Discipline	Sub-discipline
		Technical Science Technical Science	Civil Engineering Civil Engineering	Earthquake Engineering Disaster Management Policy (Earthquake Engineering)
7.	Field, discipline and sub-discipline of Ph. D. degree	Field	Discipline	Sub-discipline
		Technical Science	Civil Engineering	Earthquake Engineering
8.	If the lecturer is in a working relationship, he/she should state his/her affiliation, the awarded title and in which field	Institution		Title in which he/she has been elected and in which field
		Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)		Assistant Professor, Earthquake Engineering

9.	List of subjects that the lecturer teaches separately in the first, the second and the third cycle of studies			
	9.1.	List of subjects that the lecturer teaches at the first cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	-	-
	9.2.	List of subjects that the lecturer teaches at the second cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Dynamics of Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		2.	Reinforced Concrete Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		3.	Introduction to MATLAB and its Application to Engineering Analysis	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		4.	Masonry Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
	9.3.	List of subjects that the lecturer teaches at the third cycle of studies		
		No.	Title of the subject	Curriculum /institution
		1.	Base of Earthquake Engineering and Engineering Seismology	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		2.	Dynamics of Structures in Earthquake Engineering	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		3.	General Design Principles For Seismic Resistant Building Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)
		4.	Advanced Application of MATLAB for Solving Engineering Problems	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)

		5.	Advancd Structural Dynamics	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		6.	Design of Seismic Resistant Building Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
		7.	Repair and Strengthening of Building Structures	Earthquake Engineering and Engineering Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)	
10.	Selected results achieved in the last five years				
	10.1.	Relevant published scientific papers (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Sheshov V., Apostolska R., Bozinovski Z., Vitanova M., Stojanoski B., Edip K., Bogdanovic A., Salic R., Jekic G., Zafirov T., Zlateski A., Chapragoski G., Tomic D., Zurovski A., Trajchevski J., Markovski I.	Reconnaissance Analysis on Buildings Damaged during Durres Earthquake Mw6.4, 26 November 2019, Albania:	Bulletin of Earthquake Engineering, Case Study Reports. Springer / 2021
		2.	Isaković. T., Gams M., Janevski A., Rakićević Z., Bogdanović A., Jekić G., Kolozvari K., Wallace J., Fischinger M.	Shake table test of RC walls' coupling provided by slabs	Building Materials and Structures / 2021
		3.	Ceko, B., Petkovski, R., Attar, O., Jekic, G., Gavrilovic, P.	Conservation, Structural Consolidation and Seismic Strengthening of Ali Pasha Mosque in Ohrid, North Macedonia	Vayas, I., Mazzolani, F.M. (eds) Protection of Historical Constructions. PROHITECH 2021, Lecture Notes in Civil Engineering, vol 209. Springer, Cham./2022
		4.	Shendova, V., Jekic, G., Zlateski, A., Gavrilovic, P.	Application of the Methodology Developed Within the PROHITECH Project in Seismic Retrofitting of Mosques	Vayas, I., Mazzolani, F.M. (eds) Protection of Historical Constructions. PROHITECH 2021

		5.	Jekic G., Shendova V., Apostolska R., Zlateski A., Zhurovski A., Delova E., Bojadjieva	IZIIS' Seismic Assessment Protocol for Existing Building Structures	Third European Conference on Earthquake Engineering and
	10.2.	Participation in scientific-research and international projects (up to five)			
		No.	Authors	Title	Publisher/year

		1.	Eidgenössische Technische Hochschule Zürich (ETH) Centro Europeo di Formazione e Ricerca in Ingegneria Sismica (EUCE) Joint Research Centre – European Commission (JRC) Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA) Laboratório Nacional de Engenharia Civil (LNEC) University of Patras (UPAT) University of Bristol (UBRI) Institute of Earthquake Engineering and Engineering Seismology SS Cyril and Methodius University Skopje (IZIIS) The Chancellor, Masters and Scholars of the University of Cambridge (UCAM) Università degli Studi di Trento (UNITN) Universidade de Porto (UPORTO) Universidad Politecnica de Madrid (UPM) Bogazici Universitesi (BOUN) Aristotelio Panepistimio Thessalonikis (AUTH) Helmholtz Zentrum Potsdam Deutsches Geoforschungszentrum (GFZ) Koninklijk Nederlands Meteorologisch Instituut (KNMI) Institut National de Cercetare-Dezvoltare Pentru Fizica Pamantului (INFP) National Observatory of Athens (NOA) Uppsala Universitet (UU) Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC) Natural Environment Research Council (NERC) United Kingdom Euro-Mediterranean Seismological Centre (EMSC) Università degli Studi di Napoli Federico II (UNINA) Centre National de la Recherche Scientifique (CNRS)	SERA: The Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe	Horizon 2020-INFRAIA-01-2016-2017 'Integrating Activities for Advanced Communities'/ 2017-2020

		2.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology CMC – Government of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy	CRISIS: Comprehensive RISk assessment of basic services and transport InfraStructure; UCPM-2020-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) / 2020-2022
		3.	Goran Jekic, Igor Gjorgjiev, Aleksandar Zhurovski	A method for using experimentally determined sets of modal parameters to predict the response of structures to seismic excitations and damage detection potential	UKIM-IZIIS /2020
	10.3.	Published books in the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Igor Gjorgjiev, Goran Jekic	Application of Matlab for Solving Structural and Earthquake Engineering Problems	UKIM-IZIIS /2019
	10.4.	Published professional papers for the last five years (up to five)			
		No.	Authors	Title	Publisher/year
		1.	Jekic Goran, Bojadjieva Julijana, Vitanova Marija	Residential Seismic Survey Report Evaluation of Seismic Stability of Leased Residential Property Teodosij Sinaitski Str. no. 32, Skopje	UKIM-IZIIS / 2022
		2.	Vitanova Marija, Bojadjieva Julijana, Jekic Goran	Residential Seismic Survey Report Evaluation of Seismic Stability of Leased Residential Property Slavejko Arsov Str. no. 17, Skopje	UKIM-IZIIS / 2022
		3.	Bojadjieva Julijana, Vitanova Marija, Jekic Goran	Residential Seismic Survey Report Evaluation of Seismic Stability of Leased Residential Property Ganco Hadzipanzov Str. no. 26, Skopje	UKIM-IZIIS / 2022

		4.	Shendova Veronika, Zhurovski Aleksandar, Jekic Goran, Zlateski Aleksandar, Kitanovski Toni, Ivanovski Dejan, Delova Elena	Report from the inspection and control of the load capacity of the slab on the second floor in the building of Stopanska Banka, Radovish	UKIM-IZIIS / 2022
		5.	Shendova Veronika, Apostolska Roberta, Jekic Goran, Zlateski Aleksandar, Delova Elena, Zhurovski Aleksandar	Report on the analysis of the existing construction of the Macedonian Telecom facility in Strumica	UKIM-IZIIS / 2022

11.	Mentorship at undergraduate, master and doctoral studies		
	11.1.	Final examinations for award of diploma	-
	11.2.	M. Sc. theses	-
	11.3.	Doctoral dissertations	-

12.	For the mentors of doctoral theses, selected results achieved in the last four/five years				
	12.1.	Evidence on scientific-research papers published in international scientific journals or international scientific publications in the given field (up to six) for the last five years			
		No.	Authors	Title	Publisher/year
		1.			
	12.2.	Evidence on at least two scientific-research papers published in international scientific journal with impact factor in the given field for the last five years			
		No.	Authors	Title	Publisher/year
		1.			

	12.3.	Evidence on at least three participations in international meetings for the last four years				
		No.	Authors	Title of paper	International meeting/conference	Year
		1.				

Appendix 5

Data on lecturers that can be mentors of master theses within the second cycle of studies of the study programme – Earthquake Engineering

Table 1. Overview of lecturers that can be mentors of master theses within the second cycle of studies

No.	Name and surname of lecturer	Teaching-scientific, teaching or scientific title to which the lecturer is promoted	Scientific field in which the lecturer can be mentor of a master thesis
1.	Prof. Dr. Veronika ŠENDOVA	Full Professor	Earthquake Engineering
2.	Prof. Dr. Viktor HRISTOVSKI	Full Professor	Earthquake Engineering
3.	Prof. Dr. Vlado MICOV	Full Professor	Earthquake Engineering
4.	Prof. Dr. Zoran RAKIĆEVIĆ	Full Professor	Earthquake Engineering
5.	Prof. Dr. Roberta APOSTOLSKA	Full Professor	Earthquake Engineering
6.	Prof. Dr. Violeta MIRČEVSKA	Full Professor	Earthquake Engineering
7.	Prof. Dr. Vlatko ŠEŠOV	Full Professor	Earthquake Engineering
8.	Prof. Dr. Dragi DOJČINOVSKI	Full Professor	Earthquake Engineering
9.	Prof. Dr. Igor GJORGJIEV	Full Professor	Earthquake Engineering
10.	Assoc. Prof. Dr. Kemal EDIP	Associate Professor	Earthquake Engineering
11.	Assoc. Prof. Dr. Aleksandra BOGDANOVIĆ	Associate Professor	Earthquake Engineering
12	Assoc. Prof. Dr. Radmila ŠALIĆ MAKRESKA	Associate Professor	Earthquake Engineering
13	Assoc. Prof. Dr. Marta STOJMANOVSKA	Associate Professor	Earthquake Engineering
14	Assoc. Prof. Dr. Julijana BOJADZIEVA	Associate Professor	Earthquake Engineering
15	Assoc. Prof. Dr. Marija VITANOVA	Associate Professor	Earthquake Engineering
16	Asst. Prof. Dr. Goran JEKIĆ	Assistant Professor	Earthquake Engineering

Appendix 6

DIPLOMA SUPPLEMENT

1. DATA ON THE DIPLOMA HOLDER	
1.1 Name	
1.2. Surname	
1.3. Date of birth, place and country of birth	
1.4. Personal number	
2. DATA ON ACQUIRED QUALIFICATION	
2.1. Issuance date	
2.2. Qualification title	Master of Science in Earthquake Engineering Domain
2.3. Title of the study programme (main study sphere, field and domain of studies)	Study programme: Earthquake Engineering Scientific sphere: Technical-technological sciences Field: Civil engineering (207) Domain: Earthquake Engineering (20703)
2.4. Title and status of the higher education/scientific institution that issues the diploma	SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE, INSTITUTE OF EARTHQUAKE ENGINEERING AND ENGINEERING SEISMOLOGY - SKOPJE
2.5. Title and status of the higher education/scientific institution that administrates the diploma (if different)	
2.6. Language of the lecturing process	Macedonian and English language
3. DATA ON THE DEGREE (CYCLE) OF QUALIFICATION	
3.1. Type of qualification (academic/professional studies)	Academic studies
3.2. Degree (cycle) of qualification	Second cycle (master studies)
3.3. Duration of the study programme (years and ECTS credits)	2 years (4 semesters), 120 ECTS
3.4. Conditions for enrolment in the study programme	Main conditions In accordance with Article 140, item 7 of the Law on Higher Education. In addition to the main conditions, the Council of the study programme (the Scientific Council) may also define additional conditions for enrolment stated in the competition for each academic year.
4. DATA ON THE CONTENTS AND ACHIEVED RESULTS	
4.1. Mode of study (full time, part time studies)	Full time studies
4.2. Requirements and results of the study programme	The study programme involves taking exams in compulsory and optional subjects, realization of practice and elaboration of a master thesis in accordance with the Rulebook on Conditions, Criteria and

<table>
<tr><td></td><td>Rules for Enrolment and Study in the Second Cycle of Studies – Master Studies at the Ss. Cyril and Methodius University in Skopje.

With the fulfilment of the obligations anticipated for each semester, the student is awarded 30 ECTS credits. In the first semester, 4 compulsory subjects and one optional subject from the UKIM list have to be passed. In the second semester, the student has to pass 3 compulsory subjects and select 2 (two) optional subjects from the list of optional subjects for the second semester. In the third semester, the student realizes 3 compulsory subjects and selects 2 (two) optional subjects from the list of optional subjects for the third semester. In the last semester, the student realizes practical training and elaborates the master thesis. Following the successful defence of the thesis, the student is awarded the title master of science in earthquake engineering domain.

(More details can be found on www.iziis.edu.mk)</td></tr>
<tr><td>4.3. Data on the study programme (major, module, grades, ECTS credits)</td><td>Certificate on passed exams (enclosed to this document)</td></tr>
<tr><td>4.4. Grading system (scheme of grades and criteria for obtaining grades)</td><td>
<table>
<tr><td>System of numbers from 5-10</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td></tr>
<tr><td>System of points (1-100)</td><td>91-100</td><td>81-90</td><td>71-80</td><td>61-70</td><td>51-60</td><td>< 50</td></tr>
<tr><td>ECTS system</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr>
</table>
</td></tr>
<tr><td>4.5. Average grade in the course of the studies</td><td>The average grade in the course of the studies is computed as an average of the grades obtained for passed exams</td></tr>
<tr><td colspan="2">5. DATA ON THE USE OF THE QUALIFICATION</td></tr>
<tr><td>5.1. Access to further studies</td><td>Doctoral studies</td></tr>
<tr><td>5.2 Professional status (if applicable)</td><td></td></tr>
<tr><td colspan="2">6. ADDITIONAL DATA</td></tr>
<tr><td>6.1. Additional data on the student</td><td></td></tr>
<tr><td>6.2. Additional data on the higher education institution</td><td>Institute of Earthquake Engineering and Engineering Seismology
Todor Aleksandrov Str. no.165, P. Box 101 1000 Skopje
+389 2 3107 701
institut@iziis.ukim.edu.mk
www.iziis.edu.mk</td></tr>
<tr><td colspan="2">7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT</td></tr>
<tr><td>7.1. Date and place</td><td></td></tr>
<tr><td>7.2. Name and signature</td><td rowspan="2">Director Rector</td></tr>
<tr><td>7.3. Position of the signatory</td></tr>
<tr><td>7.4. Seal</td><td>Seal of the unit Seal of UKIM</td></tr>
</table>

Appendix 7
Statute of the higher education institution (of UKIM and of the unit) – link to the web-sites

Statute of UKIM
Statute of IZIIS

Report on the last self-evaluation (of UKIM and of the unit) – link to the web-sites

Self-evaluation report - UKIM-2016/2017, 2017/18 and 2018/2019
Self-evaluation report - IZIIS Report 2020-64

Appendix 8

Copy of the Decision on Accreditation of the Higher Education Institution issued by the Higher Education Accreditation and Evaluation Board of the Republic of Macedonia

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

Врз основа на член 71 став 2 алинеа 4 и член 104 став 2 од Законот за високото образование ("Службен весник на Република Македонија" број 35/08, 103/8, 26/9, 83/09, 99/09,115/10, 17/11,51/11, 123/12, 15/13, 24/13, 41/14, 116/14, 130/14, 10/15, 20/15, 98/15, 154/15, 30/2016, 127/16), Одборот за акредитација и евалуација на високото образование на Република Македонија, на својата 7 седница одржана на 30.03.2018 година, донесе

РЕШЕНИЕ

за акредитација на студиската програма Земјотресно инженерство втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија

1. Се акредитира студиската програма **Земјотресно инженерство втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија** согласно Класификацијата на научно-истражувачки подрачја, полиња и области според меѓународната Фраскатиева класификација која е дадена како Прилог 1 на Уредбата за нормативите и стандардите за основање на високообразовни установи и за вршење високообразовна дејност („Службен весник на Република Македонија" бр.103/10, 168/10 и 10/11).

2. Студиската програма од точка 1 на ова решение е во траење од 1 година (два семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со 60 ЕКТС и со звање:
- Магистер на науки од областа на земјотресно инженерство
Научно - истражувачко подрачје: Техничко - технолошки науки.
Научно – истражувачко поле: Градежништво.
Научно – истражувачко област: Земјотресно инженерство.

4. Акредитацијата на студиската програма од точка 1 на ова решение е за период од **пет** (I и II циклус) учебни години, почнувајќи од учебната 2018/2019.....

5. Ова решение е конечно и влегува во сила со денот на донесувањето.

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

О б р а з л о ж е н и е

Врз основа на донесената одлука на Наставно-научниот совет на Институт за земјотресно инженерство и инженерска сеизмологија, втор циклус студиските програми „Земјотресно инженерство“, на 08.06.2017 година до Одборот за акредитација и евалуација на високото образование во РМ достави предлог за прифаќање на елаборат за акредитација на предметната студиска програма.

Одборот за акредитација и евалуација на високото образование во РМ, на меѓуседница формира стручна комисија за оценка на доставениот предлог и врз основа на позитивната оценка содржана и извештајот на стручната комисија, на својата 7 седница одржана на 30.03.2018 година, одлучи како во диспозитивот на ова решение.

Претседател
на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

Врз основа на член 71 став 2 алинеа 4 и член 104 став 2 од Законот за високото образование ("Службен весник на Република Македонија" број 35/08, 103/8, 26/9, 83/09, 99/09,115/10, 17/11,51/11, 123/12, 15/13, 24/13, 41/14, 116/14, 130/14, 10/15, 20/15, 98/15, 154/15, 30/2016, 127/16), Одборот за акредитација и евалуација на високото образование на Република Македонија, на својата 7 седница одржана на 30.03.2018 година, донесе

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2. Студиската програма од точка 1 на ова решение е во траење од 1,5 година (три семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со 90 ЕКТС и со звање:
- Магистер на науки од областа на земјотресно инженерство
Научно - истражувачко подрачје: Техничко - технолошки науки.
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5. Ова решение е конечно и влегува во сила со денот на донесувањето.

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на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

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1. Се акредитира студиската програма **Земјотресно инженерство втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија** согласно Класификацијата на научно-истражувачки подрачја, полиња и области според меѓународната Фраскатиева класификација која е дадена како Прилог 1 на Уредбата за нормативите и стандардите за основање на високообразовни установи и за вршење високообразовна дејност („Службен весник на Република Македонија" бр.103/10, 168/10 и 10/11).

2. Студиската програма од точка 1 на ова решение е во траење од 2 години (четири семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со 120 ЕКТС и со звање:
- Магистер на науки од областа на земјотресно инженерство
Научно - истражувачко подрачје: Техничко - технолошки науки.
Научно – истражувачко поле: Градежништво.
Научно – истражувачко област: Земјотресно инженерство.

4. Акредитацијата на студиската програма од точка 1 на ова решение е за период од **пет** (I и II циклус) учебни години, почнувајќи од учебната 2018/2019.....

5. Ова решение е конечно и влегува во сила со денот на донесувањето.

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

О б р а з л о ж е н и е

Врз основа на донесената одлука на Наставно-научниот совет на Институт за земјотресно инженерство и инженерска сеизмологија, втор циклус студиските програми „Земјотресно инженерство“, на 08.06.2017 година до Одборот за акредитација и евалуација на високото образование во РМ достави предлог за прифаќање на елаборат за акредитација на предметната студиска програма.

Одборот за акредитација и евалуација на високото образование во РМ, на меѓуседница формира стручна комисија за оценка на доставениот предлог и врз основа на позитивната оценка содржана и извештајот на стручната комисија, на својата 7 седница одржана на 30.03.2018 година, одлучи како во диспозитивот на ова решение.

Претседател
на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

РЕПУБЛИКА МАКЕДОНИЈА
Одбор за акредитација и евалуација
на високото образование
Бр. 1409-152/3
10. 05. 2018 год.
СКОПЈЕ

Врз основа на член 71 став 2 алинеа 4 и член 104 став 2 од Законот за високото образование ("Службен весник на Република Македонија" број 35/08, 103/8, 26/9, 83/09, 99/09,115/10, 17/11,51/11, 123/12, 15/13, 24/13, 41/14, 116/14, 130/14, 10/15, 20/15, 98/15, 154/15, 30/2016, 127/16), Одборот за акредитација и евалуација на високото образование на Република Македонија, на својата 7 седница одржана на 30.03.2018 година, донесе

РЕШЕНИЕ

за акредитација на студиската програма Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија

1. Се акредитира студиската програма **Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија** согласно Класификацијата на научно-истражувачки подрачја, полиња и области според меѓународната Фраскатиева класификација која е дадена како Прилог 1 на Уредбата за нормативите и стандардите за основање на високообразовни установи и за вршење високообразовна дејност („Службен весник на Република Македонија" бр.103/10, 168/10 и 10/11).

2. Студиската програма од точка 1 на ова решение е во траење од 1 година (два семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со 60 ЕКТС и со звање:
- Магистер на науки од областа на земјотресно инженерство
Научно - истражувачко подрачје: Техничко - технолошки науки
Научно – истражувачко поле: Градежништво
Научно – истражувачко област: Земјотресно инженерство.

4. Акредитацијата на студиската програма од точка 1 на ова решение е за период од **пет** (I и II циклус) учебни години, почнувајќи од учебната 2018/2019.....

5. Ова решение е конечно и влегува во сила со денот на донесувањето.

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1041/1
22. 06. 2018 год.
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

О б р а з л о ж е н и е

Врз основа на донесената одлука на Наставно-научниот совет на Институт за земјотресно инженерство и инженерска сеизмологија, втор циклус студиските програми „Конструктивно инженерство со асеизмичко проектирање“, на 08.06.2017 година до Одборот за акредитација и евалуација на високото образование во РМ достави предлог за прифаќање на елаборат за акредитација на предметната студиска програма.

Одборот за акредитација и евалуација на високото образование во РМ, на меѓуседница формира стручна комисија за оценка на доставениот предлог и врз основа на позитивната оценка содржана и извештајот на стручната комисија, на својата 7 седница одржана на 30.03.2018 година, одлучи како во диспозитивот на ова решение.

Претседател
на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

РЕПУБЛИКА МАКЕДОНИЈА
Одбор за акредитација и евалуација
на високото образование
Бр. 1409-152/5
06. 06. 2018 год.
СКОПЈЕ

Врз основа на член 71 став 2 алинеа 4 и член 104 став 2 од Законот за високото образование ("Службен весник на Република Македонија" број 35/08, 103/8, 26/9, 83/09, 99/09,115/10, 17/11,51/11, 123/12, 15/13, 24/13, 41/14, 116/14, 130/14, 10/15, 20/15, 98/15, 154/15, 30/2016, 127/16), Одборот за акредитација и евалуација на високото образование на Република Македонија, на својата 7 седница одржана на 30.03.2018 година, донесе

РЕШЕНИЕ

за акредитација на студиската програма Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија

1. Се акредитира студиската програма **Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија** согласно Класификацијата на научно-истражувачки подрачја, полиња и области според меѓународната Фраскатиева класификација која е дадена како Прилог 1 на Уредбата за нормативите и стандардите за основање на високообразовни установи и за вршење високообразовна дејност („Службен весник на Република Македонија" бр.103/10, 168/10 и 10/11).

2. Студиската програма од точка 1 на ова решение е во траење од 1,5 година (три семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со 90 ЕКТС и со звање:

- Магистер на науки од областа на земјотресно инженерство

Научно - истражувачко подрачје: Техничко - технолошки науки
Научно – истражувачко поле: Градежништво
Научно – истражувачко област: Земјотресно инженерство.

4. Акредитацијата на студиската програма од точка 1 на ова решение е за период од **пет** (I и II циклус) учебни години, почнувајќи од учебната 2018/2019.....

5. Ова решение е конечно и влегува во сила со денот на донесувањето.

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1041/2
22. 06. 2018 год.
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

О б р а з л о ж е н и е

Врз основа на донесената одлука на Наставно-научниот совет на Институт за земјотресно инженерство и инженерска сеизмологија, втор циклус студиските програми „Конструктивно инженерство со асеизмичко проектирање“, на 08.06.2017 година до Одборот за акредитација и евалуација на високото образование во РМ достави предлог за прифаќање на елаборат за акредитација на предметната студиска програма.

Одборот за акредитација и евалуација на високото образование во РМ, на меѓуседница формира стручна комисија за оценка на доставениот предлог и врз основа на позитивната оценка содржана и извештајот на стручната комисија, на својата 7 седница одржана на 30.03.2018 година, одлучи како во диспозитивот на ова решение.

Претседател
на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

РЕПУБЛИКА МАКЕДОНИЈА
Одбор за акредитација и евалуација
на високото образование
Бр. 1409-152/6
06. 06. 2018 год.
СКОПЈЕ

Врз основа на член 71 став 2 алинеа 4 и член 104 став 2 од Законот за високото образование ("Службен весник на Република Македонија" број 35/08, 103/8, 26/9, 83/09, 99/09,115/10, 17/11,51/11, 123/12, 15/13, 24/13, 41/14, 116/14, 130/14, 10/15, 20/15, 98/15, 154/15, 30/2016, 127/16), Одборот за акредитација и евалуација на високото образование на Република Македонија, на својата 7 седница одржана на 30.03.2018 година, донесе

Р Е Ш Е Н И Е

за акредитација на студискита програма Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија

1. Се акредитира студиската програма **Конструктивно инженерство со асеизмичко проектирање втор циклус студии на Институт за земјотресно инженерство и инженерска сеизмологија** согласно Класификацијата на научно-истражувачки подрачја, полиња и области според меѓународната Фраскатиева класификација која е дадена како Прилог 1 на Уредбата за нормативите и стандардите за основање на високообразовни установи и за вршење високообразовна дејност („Службен весник на Република Македонија" бр.103/10, 168/10 и 10/11).

2. Студиската програма од точка 1 на ова решение е во траење од 2 години (четири семестри).

3. По завршените студии на студиската програма од точка 1 од ова решение, студентот се стекнува со120 ЕКТС и со звање:

- Магистер на науки од областа на земјотресно инженерство

Научно - истражувачко подрачје: Техничко - технолошки науки
Научно – истражувачко поле: Градежништво
Научно – истражувачко област: Земјотресно инженерство.

4. Акредитацијата на студиската програма од точка 1 на ова решение е за период од **пет** (I и II циклус) учебни години, почнувајќи од учебната 2018/2019.....

5. Ова решение е конечно и влегува во сила со денот на донесувањето.

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1041/3
22.06. 2018 год.
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА
НА ВИСОКОТО ОБРАЗОВАНИЕ

О б р а з л о ж е н и е

Врз основа на донесената одлука на Наставно-научниот совет на Институт за земјотресно инженерство и инженерска сеизмологија, втор циклус студиските програми „Конструктивно инженерство со асеизмичко проектирање“, на 08.06.2017 година до Одборот за акредитација и евалуација на високото образование во РМ достави предлог за прифаќање на елаборат за акредитација на предметната студиска програма.

Одборот за акредитација и евалуација на високото образование во РМ, на меѓуседница формира стручна комисија за оценка на доставениот предлог и врз основа на позитивната оценка содржана и извештајот на стручната комисија, на својата 7 седница одржана на 30.03.2018 година, одлучи како во диспозитивот на ова решение.

Претседател
на Одборот за акредитација и евалуација
на високото образование

Академик Владо Камбовски

Appendix 9

Lease agreements
NONE

Appendix 10

Copy of the Decision on Fulfilment of Conditions for Beginning of the Study Programme issued by the Ministry of Education and Science of the Republic of North Macedonia

РЕПУБЛИКА МАКЕДОНИЈА
МИНИСТЕРСТВО ЗА ОБРАЗОВАНИЕ И НАУКА
УП1 Бр. 14- 1326
10.07.2018 година
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1204/1
19.07. 2018 год.
СКОПЈЕ

Врз основа на член 55 став 1 од Законот за организација и работа на органите на државната управа („Службен весник на Република Македонија“ бр. 58/00, 44/02, 82/08 167/10 и 51/11), а во врска со член 145 став 6 и член 211 став 1 и 3 од Законот за високото образование („Службен весник на Република Македонија“ бр. 82/18), Министерството за образование и наука донесе

РЕШЕНИЕ

за почеток со работа на студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје

1. Со ова решение се утврдува дека се исполнети условите за почеток со студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје.
2. Ова решение влегува во сила со денот на донесување.

Образложение

Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје се обрати со барање бр. 09-1032/1 од 20.06.2018 година до Министерството за образование и наука, под наш УП1 бр. 14-1326 од 21.06.2018 година, за утврдување на исполнетоста на условите за почеток со работа студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје, единица во состав, по добиените Решенија за акредитација бр. 1409-152/3 од 10.05.2018 година, бр. 1409-152/5 од 06.06.2018 година и бр. 1409-152/6 од 06.06.2018 година од страна на Одборот за акредитација и евалуација на високото образование.

Министерството за образование и наука, со Решение УП1 бр. 14-1326 од 29.06.2018 година формира Комисија за утврдување на исполнетоста на условите за почеток со работа на студиските програми од втор циклус студии наведени во точка 1 на ова решение.

Комисијата на ден 29.06.2018 година, извршни увид и изготви Извештај УП1 бр. 14-1326 од 02.07.2018 година, каде е наведено дека за студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје, се исполнети условите согласно одредбите утврдени со Законот за високото образование и Уредбата за нормативи и стандарди за основање на високообразовни установи и за вршење на високообразовна дејност („Службен весник на Република Македонија“ бр. 103/10, 168/10 и 10/11).

Имајќи го во предвид изнесеното, се одлучи како во диспозитивот на ова решение.

ПРАВНА ПОУКА: Против ова решение, може да се заведе управен спор, со поднесување на тужба до Управниот суд на Република Македонија, во рок од 30 дена од денот на приемот на ова решение.

МИНИСТЕР
Dr. Arbër Ademi

изработил: м-р Викторија Динковска
контролирал: Снежана Лузевска
одобрил: Dr.Agim Rushiti

РЕПУБЛИКА МАКЕДОНИЈА
МИНИСТЕРСТВО ЗА ОБРАЗОВАНИЕ И НАУКА
УП1 Бр. 14-1281
22.06.2018 година
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1131/1
9.07. 2018 год.
СКОПЈЕ

Врз основа на член 55 став 1 од Законот за организација и работа на органите на државната управа („Службен весник на Република Македонија“ бр. 58/00, 44/02, 82/08 167/10 и 51/11), а во врска со член 145 став 6 и член 211 став 1 и 3 од Законот за високото образование („Службен весник на Република Македонија“ бр. 82/18), Министерството за образование и наука донесе

РЕШЕНИЕ

за почеток со работа на студиската програма од втор циклус двегодишни студии и студиската програма во траење од година и пол по Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје

1.Со ова решение се утврдува дека се исполнети условите за почеток со работа на студиската програма од втор циклус двегодишни студии и студиската програма во траење од година и пол по Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје.

2. Ова решение влегува во сила со денот на донесување.

Образложение

Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје се обрати со барање бр. 09-961/1 од 08.06.2018 година до Министерството за образование и наука, под наш УП1 бр. 14-1281 од 12.06.2018 година, за утврдување на исполнетоста на условите за почеток со работа на студиската програма од втор циклус двегодишни студии и студиската програма во траење од година и пол по Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје, единица во состав, по добиените Решенија за акредитација бр. 1409-152/7 од 06.06.2018 година и бр. 1409-152/8 од 06.06.2018 година од страна на Одборот за акредитација и евалуација на високото образование.

Министерството за образование и наука, со Решение УП1 бр. 14-1281 од 14.06.2018 година формира Комисија за утврдување на исполнетоста на условите за почеток со работа на студиската програма од втор циклус студии наведена во точка 1 на ова решение.

Комисијата на ден 14.06.2018 година, извршни увид и изготви Извештај УП1 бр. 14-1281 од 14.06.2018 година, каде е наведено дека за студиската програма од втор циклус двегодишни студии и студиската програма во траење од година и пол по Земјотресно инженерство на Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј“ во Скопје, се исполнети условите согласно одредбите утврдени со Законот за високото образование и Уредбата за нормативи и стандарди за основање на високообразовни установи и за вршење на високообразовна дејност („Службен весник на Република Македонија“ бр. 103/10, 168/10 и 10/11).

Имајќи го во предвид изнесеното, се одлучи како во диспозитивот на ова решение.

УПАТСТВО ЗА ПРАВНО СРЕДСТВО: Против ова решение, може да се заведе управен спор, со поднесување на тужба до Управниот суд на Република Македонија, во рок од 30 дена од денот на приемот на ова решение.

МИНИСТЕР
Dr. Arbër Ademi

изработил: Биљана Зафировска
контролирал: Снежана Лузевска
одобрил: Dr.Agim Rushiti

РЕПУБЛИКА МАКЕДОНИЈА
МИНИСТЕРСТВО ЗА ОБРАЗОВАНИЕ И НАУКА
УП1 Бр. 14- 1326
10.07.2018 година
СКОПЈЕ

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ
Институт за земјотресно инженерство и инженерска сеизмологија-Скопје
Бр. 09-1204/1
19.07.2018 год.
СКОПЈЕ

Врз основа на член 55 став 1 од Законот за организација и работа на органите на државната управа („Службен весник на Република Македонија" бр. 58/00, 44/02, 82/08 167/10 и 51/11), а во врска со член 145 став 6 и член 211 став 1 и 3 од Законот за високото образование („Службен весник на Република Македонија" бр. 82/18), Министерството за образование и наука донесе

РЕШЕНИЕ

за почеток со работа на студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј" во Скопје

1. Со ова решение се утврдува дека се исполнети условите за почеток со студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј" во Скопје.
2. Ова решение влегува во сила со денот на донесување.

Образложение

Институтот за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј" во Скопје се обрати со барање бр. 09-1032/1 од 20.06.2018 година до Министерството за образование и наука, под наш УП1 бр. 14-1326 од 21.06.2018 година, за утврдување на исполнетоста на условите за почеток со работа студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј" во Скопје, единица во состав, по добиените Решенија за акредитација бр. 1409-152/3 од 10.05.2018 година, бр. 1409-152/5 од 06.06.2018 година и бр. 1409-152/6 од 06.06.2018 година од страна на Одборот за акредитација и евалуација на високото образование.

Министерството за образование и наука, со Решение УП1 бр. 14-1326 од 29.06.2018 година формира Комисија за утврдување на исполнетоста на условите за почеток со работа на студиските програми од втор циклус студии наведени во точка 1 на ова решение.

Комисијата на ден 29.06.2018 година, изврши увид и изготви Извештај УП1 бр. 14-1326 од 02.07.2018 година, каде е наведено дека за студиската програма од втор циклус едногодишни, едно и пол годишни и двегодишни студии по Конструктивно инженерство со асеизмичко проектирање на Институт за земјотресно инженерство и инженерска сеизмологија при Универзитет „Св. Кирил и Методиј" во Скопје, се исполнети условите согласно одредбите утврдени со Законот за високото образование и Уредбата за нормативи и стандарди за основање на високообразовни установи и за вршење на високообразовна дејност („Службен весник на Република Македонија" бр. 103/10, 168/10 и 10/11).

Имајќи го во предвид изнесеното, се одлучи како во диспозитивот на ова решение.

ПРАВНА ПОУКА: Против ова решение, може да се заведе управен спор, со поднесување на тужба до Управниот суд на Република Македонија, во рок од 30 дена од денот на приемот на ова решение.

МИНИСТЕР
Dr. Arbër Ademi

Изработил: м-р Викторија Динковска