

## REPUBLIC OF NORTH MACEDONIA SS CYRIL AND METHODIUS UNIVERSITY IN SKOPJE

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмрлогија-Скопје

Бр. 03 - 935/1 13. 06 2021 год СКОПЈЕ



### 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

Ss. Cyril and Methodius University in Skopje   Institute of Earthquake Engineering and Engineering Seismology Address / Seat	Title of the higher education institution	
Todor Aleksandrov Str. 165, Skopje   Express mal	Ss. Cyril and Methodius University in Skopje, Institute	of Earthquake Engineering and Engineering Seismology
Express mail  Telephone  4389-2-3107-701  E-mail  Fax  4389 3112 163  Web site of the institution  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  Changes in the founders' rights (titles of the first founder and the legal successors of the founder)  Number and date of the Decision on Accreditation of the Higher Education Institution issued by the Higher Education and Evaluation Board of RNM  Number and date of the Decision on Entry of the Higher Education and Evaluation Board of RNM  Number and date of the Decision on Entry of the Higher Education Institution in the Central Register  2.2 DATA ON THE FOUNDATION OF THE HIGHER EDUCATION INSTITUTION APPLYING FOR ACCREDITATION  Title of the founder  Title of the foundation act  Decision  Vumber and date of the Decision on Condition of the Higher Education Institution in the Central Register  Changes in the founder University in Skopje  Title of the foundation act  Decision  Vumber and date of Skopic Skop		
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		Education – status change

-Ss. Cyril and Methodius University Skopjestatus 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
0) 20101111 11314)	
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 surnameTelephoneE-mailZoran Rakićević02 3107-701zoran\_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;
- 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
(2000) post-suc, contract	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:
Data on the last accreditation	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: <b>Programme:</b> 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:

	T
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	<ol> <li>Laboratories for realization of experimental research in controlled conditions and on field (6)</li> <li>Network Internet connections for students – 30, for teaching staff – 50, for administration – 4, for library – 9 (There is also a wireless Internet)</li> <li>Base type SCOP1JS number 5</li> <li>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.</li> <li>Computer equipment intended for students and teaching staff: computers – 10, Internet connections – 30+5, LCD projectors – 1, printers 1 + 25</li> <li>Modern audio visual equipment for the performance of the teaching process (video beams, screens, interactive smart board and microphones, tv sets)</li> </ol>
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	<ul> <li>Full professors 9</li> <li>Associate professors 6</li> <li>Assistant professor 1</li> </ul>
Number of persons with associate titles  Lecturer/students ratio	• Assistants 10 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	<ul> <li>Scientific Collegium</li> <li>Scientific Council</li> <li>Commission for Self-evaluation</li> </ul>

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 <a href="https://www.ukim.edu.mk/dokumenti">https://www.ukim.edu.mk/dokumenti</a> 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	2 years 4 semesters
	academic years)	4 Schiesters

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	<ul> <li>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).</li> <li>Fellowships awarded by the Ministry of Education and Science</li> <li>Fellowships awarded by the industry and the construction sector</li> <li>International fellowships from various funds</li> <li>Fellowships awarded by IZIIS</li> </ul>
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	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.
understanding	✓ 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.
	✓ 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.
Application of knowledge	✓ Ability to find out and support arguments in the frames of earthquake engineering.
and understanding	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 collect, analyse, assess and present information, ideas and concepts from relevant data.
Ability to assess	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.
	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.
Communication skills	✓ Taking significant responsibility about collective results; leading and initiating activities.
	✓ Ability for independent participation, with a professional approach, in specific, scientific and interdisciplinary discussions.
	✓ Ability to recognize personal needs for further knowledge and ability for independent action in acquiring new knowledge and skills in social frames.
Learning skills	✓ 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			
	✓ 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.			
Knowledge and understanding	✓ 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	<ul> <li>✓ Production of creative staff that will be able to continue their high education until reaching the academic title of doctor of technical sciences.</li> <li>✓ Training of candidates for creative and developmental design activities in the earthquake engineering domain.</li> </ul>			

	<b>√</b>	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.
	<b>✓</b>	Training of staff for solving complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics.
	<b>✓</b>	Training of staff for realization of activities for reduction of risks pertaining to natural disasters.
	<b>✓</b>	Training of staff for repair and strengthening of buildings, engineering and special structures until the required level of seismic safety is provided.
	<b>√</b>	Creation of capable staff that will be able to continue their higher education until they acquire the academic title of doctors of technical sciences.
	<b>✓</b>	Capability for creative and developmental activity in the earthquake engineering domain.
	<b>✓</b>	Capability for realization of complex design tasks in the domain of design and seismic stability and safety of different types of engineering structures.
Capability to assess	<b>✓</b>	Capability for solving complex problems in the domain of dynamics of structures, dynamics of soils and geotechnics.
	<b>✓</b>	Capability for management of activities for reduction of risks pertaining to natural disasters.
	<b>✓</b>	Capability to perform activities for repair and strengthening of buildings, engineering and special structures until the required level of seismic safety is provided.
	<b>√</b>	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.
Communication skills	<b>✓</b>	Shows ability to use his/her knowledge and skills, professionally communicate with colleagues and collaborators, work efficiently as team member and coordinate activities.
	<b>V</b>	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.
Learning skills	<b>✓</b>	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		Title of teaching subject	Semester	Weekly fund of lecture hours		ECTS
	subject	Ç J		L	Е	
THE FI	RST 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 lec year.	Total lecture hours (lectures/practical exercises) and number of ECTS credits in the study year.					60

No. Code of	Title of lecturing subject	Semester	Weekly fund of lecture hours		ECTS	
	subject			L	Е	
THE SE	COND 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	Е		
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	Total workload expressed through ECTS-credits		subjects expresse	he compulsory d through ECTS- dits	Workload for the optional subjects expressed through ECTS-credits		
number of ECTS credits of the study programme	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	le and scientific field for which the		Total number of subjects per semesters	
	Scientific field in which the lecturer earned doctoral degree  Institution where the lecturer is in regular working relationship		Subjects that the lecturer teaches	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.	1. 2. 3.	Nonlinearity of Engineering Materials Masonry Structures Fundamentals of Repair and Strengthening of Building Structures	2	1
2.	UKIM-IZIIS  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. 2. 3.	Dynamics of Structures Finite Element Analysis 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. 2. 3.	Steel Structures Bridges, Transportation and Infrastructure Systems 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. 2. 3. 4.	Steel Structures Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures Non-structural Elements 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. 2. 3.	Nonlinearity of Engineering Materials Reinforced Concrete Structures 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. 2. 3.	Finite Element Analysis Geotechnical Earthquake Engineering 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. 2.	Dynamics of Soils and Foundations 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. 2. 3. 4.	Introduction to MATLAB and Its Application in Engineering Analyses Finite Element Analysis Steel Structures Design of Engineering Steel Structures	2	2
10.	Assoc. Prof. Dr. Kemal EDIP  Associate Professor, Earthquake Engineering	1. 2. 3.	Dynamics of Soils and Foundations Geotechnical Earthquake Engineering Project Planning and Management	1	2

11.	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  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. 2. 3.	Fundamentals of Experimental Mechanics, Monitoring and Testing of Structures Non-structural Elements 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. 2. 3.	Fundamentals of Seismic Risk Engineering Seismology 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. 2.	Engineering Seismology Wood Structures	1	1
14.	Assoc. Prof. Dr. Julijana BOJADJIEVA  Associate Professor, Earthquake Engineering  Wider teaching-scientific field: Earthquake Engineering, Structural Engineering,	1. 2.	Dynamics of Soils and Foundations 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.				
15.	UKIM-IZIIS Assoc. Prof. Dr. Marija VITANOVA	1.	Bridges, Transportation and Infrastructure Systems.	3	
	Associate Professor, Earthquake Engineering	2.	Design of Engineering Steel Structures		
	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.	3.	Fundamentals of Seismic Risk		
	UKIM-IZIIS				
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,	1. 2. 3. 4.	Dynamics of Structures Reinforced Concrete Structures Introduction to MATLAB and Its Application in Engineering Analyses Masonry Structures	3	1
	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				

## 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 <sup>2</sup> )		
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					

## 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	Туре	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	
	2	GSV 101 Controlly USA: Variation +/ 24 5kN:
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 <sup>TM</sup> 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: $\pm 0,05$ V $\pm 0.0$ 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			
Tot	al number of enrolled students	35			
Nui	nber of students for whom accreditation has been awarded	15/academic year			
Nui	nber 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 <a href="https://www.ukim.edu.mk">www.iziis.ukim.edu.mk</a> and the University <a href="https://www.ukim.edu.mk">https://www.ukim.edu.mk</a>.

### 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 Interuniversity 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 socioeconomic 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 scientificresearch 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 Engineering and Water Power Economy	20703. Earthquake Engineering					1	6	9				16
T	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.	
	✓ 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.	General descriptors are achieved through the contents of all subjects and activities anticipated with the study programme
	✓ Shows competence in identification, analysis and solving of problems.	
Application of knowledge and understanding	✓ 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.	
	✓ Ability to collect, analyse, assess and present information, ideas and concepts from relevant data.	General descriptors are achieved through the contents of all subjects and activities anticipated in the study programme.
	✓ Ability to synthesize knowledge and make corresponding assessment taking into account personal, social, scientific and ethical aspects.	
Ability to assess	✓ 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.	
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.	General descriptors are achieved through the contents of all subjects and activities anticipated in the study programme
	✓ Taking significant responsibility about collective results; leading and initiating activities.	

	✓ Ability for independent participation, with a professional approach, in specific, scientific and inter-disciplinary discussions.	
Learning skills	<ul> <li>✓ Ability to recognize personal needs for further knowledge and ability for independent action while acquiring new knowledge and skills in social frames.</li> <li>✓ Ability to take responsibility and further professional development and advancement.</li> </ul>	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	<ul> <li>✓ 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.</li> <li>✓ Acquired is knowledge of a wide spectrum of specific subdomains of earthquake engineering and seismic design.</li> <li>✓ 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.).</li> <li>✓ Acquired is knowledge in the field of reduction and management of risks pertaining to natural disasters, particularly the seismic risk.</li> <li>✓ Acquired is knowledge in the domain of dynamics of soils and foundations.</li> </ul>	The specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme				
Application of knowledge and	✓ Production of creative staff that will be able to continue their higher education up to acquiring the academic title of doctor of technical sciences.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme				
understanding	✓ Training of candidates for creative and developmental design activity 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 up to providing the required level of seismic safety.	
	✓ Ability of staff to continue their high education until they acquire the academic title of doctor of technical sciences.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme.
	✓ Ability for creative and developmental design activity in the earthquake engineering domain.	
ALTE:	✓ 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 assess	✓ 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.	
Communication	✓ 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.	Specific descriptors are achieved through the contents of all optional subjects anticipated in the study programme
skills	✓ Shows ability to use his/her knowledge and skills, professionally communicate with colleagues and collaborators, work efficiently as a 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.	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/

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

- 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: <u>21. м, 2022</u> Број: <u>09-1690/1</u>

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:

#### ОДЛУКА

#### 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.

Скопје, 15.11.2022

Доставено до

- Архивата на ИЗИИС
- Ректорска управа/Универзитетскиот сенат

Проф. д Влатко Шешов

Страна **1** од **1** 

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



## Универзитет "Св. Кирил и Методиј" во Скопје Ss. Cyril and MethodiusUniversity in Skopje

Одлука од УС Ознака: **ОБ 5.5/13** 

Страна: 1 од 1

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

# ОДЛУКА

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** вшор циклус, дветодишни сшудии 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 Универзишешски гласник.

Иретседател на универзитетскиот сенат

Проф. д-р Сащо Еленчевски

CKOT

# 3. Opinion of the Board for Cooperation and Public Trust

унинемантет "см. кимил и астоли" - скони институт за звијоправно инпритега и инастерска свизнорогија-Скоп

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:

#### мислење

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

# Образложение

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

Groff rund -

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 МЕТОЛИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска реизмологија-Скопје

Бр. 09-802/1 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

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

> Бр. 09 - 822/2 29. 05 20 23 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 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 и изгава

Проф. д-р Зоран Ракиќевиќ

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска с**р**измологија-Скопје

5p. 09-822/3 29. 05 2023 год.

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 УПИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИР" - СКОПЈЕ Институт за зомјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09-892/4 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

#### ИЗЈАВА

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

Theyel

РЕПУБЛИКА СЕВЕРНА МАКЕЛОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерскајсемамологија-Скопје

5р. 09-892/5 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

Bleysh

РЕПУБЛИКА СЕВЕРНА МАКЕЛОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска суизмологија-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

#### ИЗЈАВА

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

Slepped

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09-822/7 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, 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 МАКЕЛОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИ!" - СКОПЕ Институт за земјотресно инженерство и инженерска феизмологија-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 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 МЕТОЛИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09 - 820 9 29 . 05 2023 год. С К О П Ј Е

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 МАКЕЛОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09-800 ГО 29. 05 2023 год. С К О П Ј Е

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 **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

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска **с**еизмологија-Скопје

Бр. 09-899/11 29, 05 2095 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 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 фотранови и

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ Институт за зомјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09-812/12 29 05 2023 год

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

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сризмологија-Скопје

Бр. 09-822/13 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, **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

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИЈ" – СКОПЈЕ Институт за земјотресно инженерство и инженерска физмологија-Скопје

> Бр. 09 - 822 14 29, 05 20 23 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 **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

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РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИЈ" – СКОПЈЕ Институт за земјотресно инженерство и инженерска сејазмологија-Скопје

Бр. 09 - 892/15 29. 05 20 23 год.

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

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИЈ" - СКОПЈЕ Институт за земјотресно инженерство и инженерска **г**еизмологија-Скопје

Бр. 09-822 XP 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, 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

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

App	endix 3	Curriculum	of the second cycl	e of study				
1.	Subject	Dynamics of						
2.	Code		MS-101					
3.	Curriculum		Earthquake Engineering and Engineering Seismology					
4.	Organizer of curriculum				g Seismology, UKIM-			
	(unit, institute, departme			2	g seismologj, e mil			
	section)	,, <sub>FJ</sub> -						
5.	Level (first, second, thir	d Second cycle						
	cycle)							
6.	Academic year / semeste	er First year / fin	rst 7.	Number of	6			
	·	semester		ECTS credits				
8.	Lecturer	Prof. d-r Vikt	Prof. d-r Viktor Hristovski					
		Asst. Prof. d-	r Goran Jekic					
9.	Preconditions for	Accomplished	d first cycle of stud	ly on technical scier	nces			
	enrollment in							
	the subject							
10.	Objectives of the curricu							
	Introduction to basic and		dge in the field of v	vibration and earthq	uake engineering			
11.	Contents of the curricult							
	Equations of motion, pro							
	Free undamped and dam							
	Forced undamped and d				systems;			
	Dynamic analysis and re			excitations;				
	Concept of elastic, inela		onse spectra;					
	Structural demand and d		1					
	Seismic analyses of line			ns;				
	Modal analyses, respons				41			
	Multi-story buildings w procedure;	out symmetric and	i asymmetric base	es - analysis using	the response spectrum			
	Introduction to the conce	ent of nonlinear sei	emic response of n	ulti etory buildinge				
12.	Methods of study: Lectu							
13.	Total available time	180 Hours	intor's rectures, tut	oriais, sciimiai wori	K.S			
14.	Distribution of available	,						
1	time	30+30+30+30	0+60					
15.	Forms of lecturing	15.1.	Lectures- theo	pretical	30 Hours			
10.	activities	10.11	lecturing		30 110013			
	det i i i i i i i i i i i i i i i i i i i	15.2.	Tutorials (labo	oratory.	30 Hours			
			auditorium), s		20 110015			
			teamwork	,				
16.	Other forms of activities	16.1.	Design tasks		30 Hours			
		16.2.	Independent to	acke	30 Hours			
		16.2.	Homework	изко				
1.7	M. 1 C 11	10.3.	nomework		60 Hours			
17.	Mode of grading	Total			45 D			
	17.1.	Tests			45 Points			
	17.2.	Seminar papers/pre	oject (presentation	: written	45 Points			
		and oral)						
	17.3.	Activity and partic	participation 10 I					
10	Grading spitania (mainte)	<u> </u>		50 points				
18.	Grading criteria (points/	graue)		50 points	5 (five) (F)			
			From 51 to		6 (six) (E) 7 (seven) (D)			
				_	8 (eight) (C) 9 (nine) (B)			
10	G 11:	• , •	From 91 to 1		10 (ten) (A)			
19.	Condition for obtaining	signature and	Presence on le	Presence on lectures and tutorials				
20	passing of final		) / · · ~					
20.	Language of lecturing	Macedonian/E	Macedonian/English					
21.	Method of monitoring th	ne lecturing	Student's inve	estigation and extern	nal evaluators			

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

App	endix no. 3	Curriculu	m of the second c	cycle of study			
1.	Subject		nite element anal	ysis			
2.	Code	M	MS-102				
3.	Curriculum	Ea	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)	Se	Second cycle				
6.	Academic year / semester		rst year / first mester	7. Number of ECTS cred			
8.	Lecturer	Pr	Prof. Dr Viktor Hristovski, responsible lecturer Prof. Dr Violeta Mircevska Prof. Dr Igor Gjorgjiev				
9.	Preconditions for enrollment in the subject	C	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.						
	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,	independe	nt tasks, homewo	rk			
13.	Total available time		180 Hours				
14.	Distribution of available time		30+30+30+30	0+60			
15.	Forms of lecturing activities	15.1.	Lectures- theoret lecturing	tical	30 Hours		
		15.2.	Tutorials (labora auditorium), sen team work.	•	30 Hours		
16.	Other forms of activities	16.1.	Project tasks		30 Hours		
		16.2.	Independent task	KS	30 Hours		
		16.3.	Homework		60 Hours		
	Mode of grading	•		1			

17.	17.1.	Tests				50 Points	
	17.2.	Seminar	papers/project (presentati	ion: written and oral)		40 Points	
	17.3.	Activity	and participation			10 Points	
18.	Gradin	g 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	8 (eight) (C) 9 (nine) (B)	
				From 81 to 90 points			
				From 91 to 100 points		10 (ten) (A)	
19.	Condit	ion for ob	otaining signature	Attending lectures actively,	successfully co	mpleted	
	and pa	ssing of fi	inal examination	homework.			
20.	Langua	age of lec	turing	Macedonian / English			
21.	Metho quality	d of moni	ion and external	evaluation			
22.	Litera						
	22.1	1	ulsory literature				
	22.1	No.	Author	Title	Publisher	Year	
		NO.	Autiloi	Title	Publisher	1 cai	
		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	. Additi	onal 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	

App	endix no. 3	C	Curricul	um of Second cycle	of s	tudies		
1.	Subject		Engine	eering Seismology				
2.	Code		MS-10	MS-103				
3.	Curriculum	ı	Earthq	Earthquake Engineering				
4.		of curriculum ute, department,		Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje				
5.	Level (first,	, second, third cycle)	second	l				
6.	Academic y	year / semester	First y	First year / Firstsemester 7. Number of ECTS credits 6			6	
8.	Lecturer		Assoc.	prof. Dr. Marta Sto prof. Dr. Radmila S Dr. Dragi Dojchinov	Salic			
9.	Precondition the subject	ns for enrollment in	/					
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.						e. Strong	
12.	Methods of Lectures, exc	study: ercises, using software, semin	nar work	x/project assignment	S			
13.	Total availa	ible time		180				
14.	Distribution	n of available time		30+30+50+10+6	50			
15.	Forms of le activities	ecturing	15.1.	Lectures- theoreti	cal 1	ecturing		30 Hours
			15.2.	Tutorials (laborat seminars, team w	-	auditorium),		30 Hours
16.	Other forms	s of activities	16.1.	Design tasks				50 Hours
			16.2.	Independent tasks	S			10 Hours
17	Made of on	adin a	16.3.	Homework				60 Hours
17.	Mode of gr 17.1. Test	Č					4	40 Points
	17.2. Sem	ninar papers/project ( prese	ntation:	written and oral)			4	40 Points
	17.3. Activity and participation						,	20 Points
18.		<del>=</del>		Up to 50	poir	nts	5	(five) (F)
				From 51 to 60				$\frac{(\sin(x))(E)}{(\sin(x))(E)}$
				From 61 to 70				even) (D)
				From 71 to 80				eight) (C)
				From 81 to 90	_			nine) (B)
				From 91 to 100	•			(ten) (A)
19.	Condition f	or obtaining signature		1101117110100	L'011		10	(***)
17.		g of final examination						
		,	1					

20.	Language of lecturing			Macedonian/English				
	quality		oring the lecturing	Surveys and other forms of continuous evaluation				
22.	Literatur							
	22.1.	_	sory 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.	Additio	nal literature					
		No.	Author	Title	Publisher	Year		
		1.	Leon Reiter	Earthquake Hazard Analysis: Issues and Insights	New York: Colombia University Press	1991		

Appe	endix 3	Subject Curriculum of Second cycle of studies					
1.	Subject	Nonlinearity in Engineering Materials					
2.	Code	MC-104					
3.	Curriculum Organizer of curriculum	Earthquake Engineering Ss. Cyril and Methodius University in Skopje					
4.	(unit, institute, department,	Institute of Earthquak			mology IZUS		
	section)	Institute of Lartiquak	c Engineering	and Engineering Seis	iniology, iziis		
5.	Level (first, second, third cycle)	Second cycle - MSc					
6.	Academic Year / Semester	First year	7.	Credit numbers	6		
		First Semester					
8.	Lecturer		Prof. Dr. Veronika Shendova Prof. Dr. Roberta Apostolska				
9.	Preconditions for enrollment in the subject	-					
10.	Objectives of the curriculum (Co	mpetences):					
		program m include acqui eratomic bonding and c istics, failure mechanis	rystal structu	res of crystaline ma			
11.	Contents of the curriculum:						
	<ol> <li>Atomic Structure, Interator primary interatomic bond</li> <li>Structures and Mechanical deformations, characteristics hardness, design and safet</li> <li>Failure: fracture, brittle and Structures and Mechanical advantages and disadvant</li> <li>Structures and Mechanical advantages and Mechanical advantages and Mechanical characteristics, application</li> <li>Cement and Concrete memonotonic, cyclic and dynamical advantages</li> </ol>	racture, brittle and ductile fracture, principles of fracture mechanics, Fatigue and Creep s and Mechanical Properties of Ceramics: crystal structures, mechanical characteristics, es and disadvantages, application in civil engineering and Mechanical Properties of Polymers: hydrocarbon molecules, mechanical stics, applications in civil engineering and Concrete materials: characteristics, behaviour and stress-strain relationship for c, cyclic and dynamic loading and Structural Steels: material properties, different classes of structural steel, stress-					
12.	Methods of study:						
	Interactive lectures with presenta		oratory tutoria	als, numerical exampl	es		
13.	Total available time	180 hours					
14. 15.	Distribution of available time Forms of lecturing activities	30+30+30+15+75 15.1. I	actures these	ratical lacturing	20 hours		
13.	Forms of fecturing activities	15.2.	Γutorials (labo	ratory, auditorium),	30 hours		
16.	Other forms of activities		seminars, team Design tasks	Work.	30 hours		
					15 hours		
		16.3. Homework			75 hours		
17.	Mode of grading	1			, , , , , , , , , , , , , , , , , , , ,		
	17.1. Written exan	n exam		20 points			
-	17.2. Oral exam			30 points			
-	17.3. Seminar wor	k		35 points			
-	17.4. Activity			15 points			
18.	Grading criteria (points / grade)		upto 50	•	5 (five) (F)		

				1			
				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 sexamination	signature	and passing of final	50 pt.			
20.	Language of lecturing			Macedonian/English	1		
21.	Method of monitoring th	e lecturin	g quality	Internal evaluation as	nd student surveys		
	Literature						
		Compu	lsory literature				
		Nr.	Author, title, publisher, year				
		1.	W. D. Callister, D. G. Rethwisch, "Materials Science and Engineering –				
			An Introduction, 10th edition, Wiley (2018)				
	22.1.	2.	R. Park and T. Paulay, "Reinforced concrete structures", John Wiley and				
	22.1.		Sons. Inc, 1975, (Chapters1 and 2).				
		3.			forced Concrete Design to		
				Press, Taylors & Franci	s Group, Fourth Ed., 2014		
22.			(Chapter 2).				
		4.		c Design of Reinforced Concrete Buildings", McGraw-			
				5 (Chapters, 2, 3 and 4	.)		
		Additio	nal literature				
		Nr.	Author, title, publis	her, year			
		1.	Eurocode 2: Design	of reinforce concrete s	structures, Part 1-1: General Rules		
	22.2.		for Building, EN 19				
		2.			art 1-1: General Rules for		
			Buildings, EN 1993	3-1-1			
		3.	Lecture notes prepa	red by the professors of	of the subject		
			1				

App	endix 3		Subject Curriculu		cle of	f studies		
1.	Subject		Reinforced Concre	ete Structures				
2.	Code		MC-201					
3.	Curriculum		Earthquake Engine					
4.	Organizer of curri		Ss. Cyril and Metho				1	
	(unit, institute, dep section)	partment,	Institute of Earthqu	ake Engineering	g and	Engineering Seisi	mology, IZIIS	
	Level (first, secon	d third cycle)	Second cycle - MSo	<u> </u>				
6.	Academic Year / S		First year	7.	Cred	lit numbers	6	
0.	ricadellile reary	yennester .	Second Semester	/ /	Cica	ir namocis		
8.	Lecturer		Prof. Dr. Roberta A	postolska			•	
			Assoc. prof. dr. Go					
9.	Preconditions for	enrollment in	Passed compulsory	subjects from the	he firs	st semester		
10.	the subject Objectives of the o	ourriculum (Con	mnetences):					
10.								
	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.							
			icaign of scisiffic lesi:	stant bunding st	ı uctu.	103.		
11.	Contents of the curriculum:							
	■ Introduc	tion: characteri	stics of concrete and	rainforcing stat	al ac r	notariale Rahavi	our of concrete	
			ct of monotonous an	•	ei as i	nateriais. Denavi	our or concrete	
				•				
	•		stant RC building	structures, phil	osop	hy of design (ba	asic concepts),	
	review o	of design codes						
	<ul> <li>Loads ac</li> </ul>	ccording to the	actual design codes	(including Euro	ocode	es)		
	<ul> <li>Design of</li> </ul>	of reinforced co	ncrete elements (bea	ıms, slabs, colu	ımns	and shear walls).	Proportioning	
			orced-concrete stru					
		•	al codes and Eurocod	-				
	<ul> <li>Analysis</li> </ul>	s of ultimate lin	nit states and behavi	our of reinforce	ed co	ncrete elements	under bending	
			sion. Confinement, b					
				ū		•	C	
		columns and sh	y. Definition of str	engui and duc	шцу	capacity of buil	iding elements	
	■ Precast s	structures – basi	ic terms and design of	concepts accord	ding t	to the Eurocodes.	•	
	<ul><li>Numerio</li></ul>	cal example: an	alysis and design of	RC seismic res	istan	t building structu	re.	
12.	Methods of study:							
			tations, auditorium t	utorials with p	resen	tation of numeric	cal examples,	
	literature survey,	training for use	e of software for ana				-	
13.	Total available tin		180 hours					
14.	Distribution of ava		30+30+35+20+65	T - days d		-1.14	20.1	
15.	Forms of lecturing	gactivities	15.1.	Lectures - the			30 hours	
			15.2.	seminars, tean		ry, auditorium),	30 hours	
16.	Other forms of act	tivities	16.1.	Design tasks	11 44 OII		35 hours	
			16.2.	Independent to	acke		20 hours	
			16.3.	Homework	asks		65 hours	
17.	Mode of grading		10.5.	Homework			ob nours	
1/.	17.1.	Oral exam				50 points		
						-		
	17.2.	Seminar work				35 points		
	17.3.	Activity				15 points		
18.	Grading criteria (p	points / grade)		upto 50	0 pt.		5 (five) (F)	
	- *			51 x to 60			6 (six) (E)	

				61 х 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 sexamination	signature	and passing of final	50 pt.			
20.	Language of lecturing			Macedonian/English	1		
21.	Method of monitoring th	e lecturin	g quality	Internal evaluation a	nd student surveys		
	Literature						
		Compu	Compulsory literature				
		Nr.	Author, title, publisher, year				
	22.1.	1.	R. Park and T. Paulay, "Reinforced concrete structures", John Wiley and Sons. Inc, 1975.				
22.		2.	J. Moehle. Seismic Design of Reinforced Concrete Buildings. McGraw-Hill Education, 2015.				
22.		Additio	nal literature				
		Nr.	Author, title, publis	sher, year			
	22.2.	1.	Eurocode 2: Design of reinforce concrete structures, Part 1-1: General Rules				
			for Building, EN 1992-1-1, CEN-CENELEC, 2004.				
		2.			ant Structures, Part 1-1 General		
				ions and Rules for Buil	ldings, EN 1998-1, CEN-		
			CENELC, 2004.				

App	endix 3	Curriculum of	the se	cond cycle	of s	tudy	
1.	Title of the lecturing subject	Soil Dynamics					
2.	Code	MS-202					
3.	Study program	Earthquake Engi					
4.	Organizer of the study					Skopje, Institute of I	Earthquake
	program (unit, i.e. institute, department, section)	Engineering and		neering Sei	smol	ogy (IZIIS)	
5.	Degree (first, second, third cycle)	Second cycle - N	MSc				
6.	Academic year / semester	First year Second Semeste	r	7.	Nui	mber 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						
	The primary goals of the	subject program in	nclude	: Acquirin	g kn	owledge regarding t	he fundamental
	principles governing the be						
	local effects of soil on seism						
	stability of structures. Explo						
	from a solid state to a lie	quid-like state und	ler cyc	clic loadin	ıg, aı	nd its implications f	for geotechnical
	engineering. Familiarizing						
	investigations, which are e						
	proficiency in numerical mo						
	various dynamic conditions						
	specifically focusing on the						
	that provides guidelines for						
4.4	to geotechnical factors is cru	ucial for ensuring th	ne sate	ety and reli	abilit	y of engineered struc	tures.
11.	Contents of the curriculum:	c 11 D	. ,	, .	1	E	.1 1 .
	I. Dynamic characteristics						
	parameters of the soil - Labo II. Dynamic response of so						
	geotechnical medium III.						
	interaction - Foundation vil						
	interaction V. Soil impro						
	Constructive protection mea						non potential
12.	Learning methods: Lectures						re and
	equipment, seminar work	,	,		1	F	
13.	Total available time						180 hours
14.	Allocation of available time					30	0+30+30+20+70
15.	Forms of lecturing	15.1.	Lect	uring and	theor	etical teachins	30 hours
	activities	15.2.				ry, classroom),	
				inars, team			30 hours
16.	Other forms of activities	16.1.	+	ect assignn			30 hours
		16.2.				written/oral exam)	
					) 846	withen/oral exalli)	20 hours
1.5	36.1.6.2	16.3	Hon	nework			70 hours
17.	Mode of grading	XX					
	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/g			Jp to 50 pc			5 (five) (F)
				51 to 60 pc			6 (six) (E)
			From	61 to 70 pc	oints		7 (seven) (D)

				From 71 to 80 points		8 (eight) (C)		
				From 81 to 90 points		9 (nine) (B)		
				From 91 to 100		10 (ten) (A)		
				points				
19.	Requirement for signal exam	gnature an	nd passing the	50 poi				
20.	Language of lectur	ing		Macedonian and Engl	ish			
21.	Method of monitor quality							
	Literature							
		Compul	sory literature					
		Ord. No.	Author	Title	Publisher	Year		
	22.1.	1.	Kramer, Steven L	Geotehnical Earthquake Engineering	Prentice Hall	1996		
22.	22.1.	2.	Kenji Ishihara.	Soill Behaviour in Earthquake Geotehnics	Oxford Press	1996		
		3.	Ikuo Towhata	Geotehnical Earthquake Engineering	Springer	2008		
		Addition	nal literature					
	22.2.	Ord. No.	Author	Title	Publisher	Year		
		1.	Instructional m	aterials prepared by the	e professors of the su	bject		

	endix no. 3		Curricul	um of Second cyc	ic or s	tuules	
1.	Subject		Steel s	structures			
2.	Code		MS-20	)3			
3.	Curriculum		Eartho	uake Engineering			
4.	Organizer of cu (unit, institute,			te for Earthquake l ology, UKIM-IZII			ering
5.	section)	and third avala)	second	1			
5. 6.		cond, third cycle)		ear / second	7.	Number of	6
	Academic year	/ semester	semes	ter		ECTS credits	0
3.	Lecturer		prof. Dr. Igor GJORGJIEV Prof. Dr. Vlado Micov Prof. Dr. Zoran Rakićević				
€.	Preconditions f the subject	or enrollment in	/				
	systems used in structures in hi	d 8. Learning the base of construction. Appl gh-rise buildings, statements. Calculation of ings.	ication of atic analys	loads (wind, sno sis and dimension	w, ear	rthquake, temper of main and secon	rature) to steendary
		arious steer structures i	in high-rise	e construction:			
	<ul> <li>Review of structures in high</li> <li>Analysis of steed</li> </ul>	ctural systems for rece cases and combining the seismic action and ana	eiving seismem; alysis of the se building	e response of differ	ent st	ructural systems ir	ı steel
12.	- Review of structures in high - Analysis of steet - Dimensioning of Methods of structures in high - Analysis of steet - Dimensioning of Methods of stu	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic eleme	eiving seisr hem; alysis of the se building ents and co	nic actions in steel e response of differ	ent st	ructural systems ir	ı steel
	- Review of structures in high - Analysis of steet - Dimensioning of Methods of stu Lectures, exercise	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic elements. dy: ses, project assignments	eiving seisr hem; alysis of the se building ents and co	nic actions in steel e response of differ	const	ructural systems in	ı steel
13.	- Review of structures in high - Analysis of steet - Dimensioning of Methods of stu Lectures, exercise - Total available	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic elements. dy: ses, project assignment time	eiving seisr hem; alysis of the se building ents and co	e response of differences; nnections from the	const	ructural systems in	ı steel
13. 14.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecture	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time	eiving seisr hem; alysis of the se building ents and co	nic actions in steel e response of differ gs; nnections from the	const	ructural systems in ruction system;	
13. 14.	- Review of structures in high - Analysis of steet - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time	eiving seisr hem; alysis of the se building ents and co	e response of differences; nnections from the  6 ECTS x 30h= 30+30+40+40-	const = 180h -40 tical	ructural systems in ruction system;	30 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecture	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time	eiving seisr hem; alysis of the se building ents and co	e response of differences; s; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (labora	const = 180h -40 tical	ructural systems in ruction system;	30 Hou
13. 14.	- Review of structures of calculation of structures in high - Analysis of steeth - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time	eiving seismem; allysis of the see building ents and co	actions in steel e response of differences; s; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laboraseminars, team)	const = 180h -40 tical l atory, work	ructural systems in ruction system;	30 Hou 30 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time ring	eiving seismem; allysis of the se building ents and co	actions in steel e response of differences; s; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laboraseminars, team) Design tasks	const = 180h -40 tical latory, work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stern - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of Mode of gradin	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time ring	eiving seismem; allysis of the se building ents and co ts 15.1. 15.2. 16.1. 16.2.	actions in steel e response of differences; s; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laborate seminars, team of the s	const = 180h -40 tical latory, work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou 40 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time ring	eiving seismem; allysis of the se building ents and co ts 15.1. 15.2. 16.1. 16.2.	actions in steel e response of differences; s; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laborate seminars, team of the s	const = 180h -40 tical latory, work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou 40 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of Mode of gradine 17.1. Tests	ctural systems for rece cases and combining the seismic action and ana h-rise buildings. el structures in high-ri of characteristic element dy: ses, project assignment time available time ring	eiving seismem; allysis of them; allysis of the see building ents and coefficients are considered as a coefficient and coefficients are considered as a coefficient and coefficients are coefficients and coefficients are coefficients and coefficients are coefficients are coefficients and coefficients are coefficients are coefficients are coefficients and coefficients are coefficients are coefficients and coefficients are coeffici	actions in steel e response of differences; ss; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laboraseminars, team) Design tasks Independent tas Homework	= 180h -40 tical latory, work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou 40 Hou 50 Poin
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of Mode of gradine 17.1. Tests  17.2. Seminar	ctural systems for rece cases and combining the seismic action and anath-rise buildings. el structures in high-ri of characteristic elements. dy: ses, project assignmenttime available time ring	eiving seismem; allysis of them; allysis of the see building ents and coefficients are considered as a coefficient and coefficients are considered as a coefficient and coefficients are coefficients and coefficients are coefficients and coefficients are coefficients are considered as a coefficient and coefficients are coefficients are coefficients and coefficients are coefficients and coefficients are coefficients and coefficients are coefficien	actions in steel e response of differences; ss; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laboraseminars, team) Design tasks Independent tas Homework	= 180h -40 tical latory, work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou
13. 14. 15.	- Review of structure - Defining load of - Calculation of structures in high - Analysis of stee - Dimensioning of Methods of stu Lectures, exercise Total available Distribution of Forms of lecturactivities  Other forms of Mode of gradine 17.1. Tests  17.2. Seminar	ctural systems for receptases and combining the seismic action and anath-rise buildings. The self structures in high-rise of characteristic elements of char	eiving seismem; allysis of them; allysis of the see building ents and coefficients are considered as a coefficient and coefficients are considered as a coefficient and coefficients are coefficients and coefficients are coefficients and coefficients are coefficients are considered as a coefficient and coefficients are coefficients are coefficients and coefficients are coefficients and coefficients are coefficients and coefficients are coefficien	actions in steel e response of differences; ss; nnections from the  6 ECTS x 30h= 30+30+40+40- Lectures- theore Tutorials (laboraseminars, team) Design tasks Independent tas Homework	const  = 180h  -40  tical l  atory,  work	ructural systems in ruction system;	30 Hou 30 Hou 40 Hou 40 Hou 50 Poin

1	Í				<del></del>			
				From 61 to 70 point		7 (seven) ( <i>D</i> )		
				From 71 to 80 point		8 (eight) (C)		
				From 81 to 90 point		9 (nine) (B)		
				From 91 to 100 point		10 (ten) (A)		
19.			taining signature	Attendence of lectures and e		ion for the		
			nal examination	exam is completed seminar	works			
20.	Languag	e of lect	uring	Macedonian/English				
21.	Method quality	of monit	foring the lecturing	Surveys and other forms of	of continuous eva	aluation		
22.	Literatur	e						
	22.1.	Compu	llsory literature					
		No. Author		Title	Publisher	Year		
		Leroy Gardner and David     Nethercot		A. 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, Federi Mazzolani, Dan Dubina, Luís Simões da Silva and Mario d'Aniello		Design of Steel Structures for Buildings in Seismic Areas	Wiley	2017		
		2.						
		3.						

1.	,		04111041	um of Second cycle o	n stu	uics		
	Subject		Introd	action to MATLAB a	nd its	application to	engineer	ring
2.	Code		MS-20	)4				
3.	Curriculum		Earthq	uake Engineering				
4.		f curriculum te, department,		te for Earthquake Eng blogy, UKIM-IZIIS, S			ering	
5.	Level (first,	second, third cycle)	second	second				
6.	Academic y	ear / semester	-	First year / second 7. Number of ECTS credits 6				
8.	Lecturer			prof. Dr. Igor GJORGJIEV Assoc. Prof. Dr. Goran JEKIĆ				
9.	Precondition the subject	ns for enrollment in	/	/				
10.		of the curriculum (comp MATLAB environment a problems.		students for its appli	catior	ı in solving eng	ineering	and
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 Lectures, exe	study: rcises, project assignment	:S					
13.	Total availa			6 ECTS x 30h= 13	80h			
		of available time		30+30+30+35+80				
15.	Forms of leactivities		15.1.	Lectures- theoretic		turing	30	) Hours
			15.2.	Tutorials (laborato seminars, team wo	-	uditorium),	30	) Hours
16.	Other forms	of activities	16.1.	Design tasks			30	) Hours
			16.2.	Independent tasks				Hours
17	M 1 6	1.	16.3.	Homework			55	Hours
17.	Mode of gra  17.1. Tests						40	Points
	17.2. Sem	inar papers/project ( pre	sentation:	written and oral)			40	Points
17.3. Activity and participation 20 F							Points	
18.				Up to 50	points	3	5 (fi	ive) (F)
-				From 51 to 60	•			six) (E)
				From 61 to 70				en)(D)
				From 71 to 80				ght) (C)
			<u> </u>					
	Ī			From 81 to 90 points 9 (nine			, (D)	
				From 91 to 100 :	nointe			en) (A)
19.	Condition for	or obtaining signature	Δ+	From 91 to 100 tendence of lectures a		3	10 (t	en) (A)

20.	Languag	e of lect	uring	Macedonian/English					
21.	Method quality	of monit	oring the lecturing	Surveys and other forms of	of continuous eval	uation			
22.	Literatur	e							
	22.1.	Compu	lsory 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		2019			
		2.	Igor Gjorgjiev. Goran Jekik	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			
		<ul><li>2. Amos Gilat</li><li>3. William J. Palm</li></ul>		MATLAB An Introduction with Applications, 4ed  Introduction to MATLAB for Engineers, 3ed  JOHN WILEY & SONS, INC  MCGraw-Hill		2011			
						2005			

1.	endix 3	Curriculum of the second cycle of study Project planning and management					
	Title of the lecturing subject	3 1 6	d management				
2.	Code	MS-205					
3.	Study program	Earthquake Enginee					
4.	Organizer of the study program (unit, i.e. institute, department, section)	Ss. Cyril and Metho Engineering and En				arthquake	
5.	Degree (first, second, third cycle)	Second					
6.	Academic year / semester	First year / second semester	7.	Numl credit	ber of ECTS ts	6	
8.	Lecturer	Assoc. Prof. Dr. Ke Assoc. Prof. Dr. Ra		ıkreska			
9.	Preconditions for enrollment in the subject	none					
10.	Objectives of the curriculur Acquisition of knowledge complex constructions from educational projects.	in the field of manag	- 1	_			
11.	Contents of the curriculum Today, the importance of pl are becoming more comple handle such challenges in demands significant invest essential when undertaking international levels. The p	anning and managing x and intricate, highlig the future. Whether i ments, planning and pg large-scale scientifi	thing the need t involves a co project manage c research and	for train omplex coment are deducat	ing personnel whe construction ender corucial. These s	o can effectively eavor or one that skills are equally	
	management, including: P influences that impact project orgations. Project orgations are effective produced by the project orgating an effective produced by the project control in planning and project control in planning and project control in planning deviations from the plan communication plans, estationary project stakeholders and technologies to support will acquire a comprehensi successfully plan, execute,	Project management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: It densuring effective fatting mechanisms to an, and ensuring quablishing effective chance. Computer application to project planning, schewe understanding of p	nvironment: U as organization the project teating and manage ntifying skill re- Estimating pro- cinancial mana monitor project latity control. lannels of control in with project eduling, and transper manager	Understar hal cultur ham, defin gement quiremen ject cos gement ect proge Projec haminical planning acking. I	nding the contextre, stakeholder are, stakeholder are, ing roles and respondents, and managing ts, creating budy throughout the press, identifying the communication, and fostering projects: Utilizing by covering these	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students	
12.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estatement and technologies to support will acquire a comprehension successfully plan, execute,  Learning methods: Theoret independent assignments (see the project of the project stake of the plate of the p	project management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: It densuring effective fatting mechanisms to an, and ensuring quablishing effective characteristics. Computer application to project planning, schove understanding of pland control projects artical lecturing (lectures	nvironment: Use or ganization of the project team of managementifying skill research and management of the project in the proj	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prir omains.	nding the contextre, stakeholder are, stakeholder are ing roles and respondents, and managing ts, creating budy throughout the press, identifying the communication tion, and fostering projects: Utilizing by covering these arciples and gain precical lecturing (	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to fexercises),	
13.	influences that impact project onsiderations. Project orgating an effective proper Developing strategies for refinancial planning and project control: Implement deviations from the plan communication plans, estatement and technologies to support will acquire a comprehension successfully plan, execute,  Learning methods: Theoret independent assignments (strong project state of the plant of the	project management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: It densuring effective fatting mechanisms to an, and ensuring quablishing effective characteristics. Computer application to project planning, schove understanding of pland control projects artical lecturing (lectures	nvironment: Use or ganization of the project team of managementifying skill research and management of the project in the proj	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prir omains.	nding the contextre, stakeholder are, stakeholder are ing roles and respondents, and managing ts, creating budy throughout the press, identifying the communication tion, and fostering projects: Utilizing by covering these arciples and gain precical lecturing (	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to	
	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estate among project stakeholders and technologies to support will acquire a comprehensi successfully plan, execute,  Learning methods: Theoret independent assignments (state of Total available time	Project management elect management, such anization: Establishing ject structure. Planni esource allocation, identification and ensuring effective fating mechanisms to an, and ensuring quablishing effective chance to be computer application to project planning, schove understanding of pland control projects and control projects and ical lecturing (lectures seminar paper) and hor	nvironment: Uses organizations the project teams and manageritifying skill researched in the project in the pro	Understar nal cultur im, defin gement quiremen ject cos gement ect projec nmunical planning acking. I ment prin omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are ing roles and responding the following tas, creating budy throughout the press, identifying the communication and fostering projects: Utilizing the grojects: Utilizing the context of the following the second gain projects and ga	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to exercises),  180 hours 30+30+60+60	
13.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estadorous among project stakeholders and technologies to support will acquire a comprehensi successfully plan, execute,  Learning methods: Theoret independent assignments (see Total available time)	roject management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: Id ensuring effective fating mechanisms to an, and ensuring quablishing effective characteristics. Computer application to project planning, schove understanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper p	nvironment: Use organization of the project tearing and manage of the extreme of the project tearing programmers of the extreme of the extrem	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prir omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are ing roles and responding roles and managing ts, creating budy throughout the press, identifying the communication and fostering projects: Utilizing By covering these inciples and gain precical lecturing (action).	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to exercises),  180 hours 30+30+60+60 30 hours	
13. 14.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estatement and technologies to support will acquire a comprehension successfully plan, execute,  Learning methods: Theorett independent assignments (strong activities)  Total available time  Allocation of available time  Forms of lecturing activities	roject management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: Id ensuring effective fating mechanisms to any and ensuring quablishing effective characteristic computer application to project planning, schove understanding of pland control projects and control projects are ical lecturing (lectures seminar paper) and hot in the project planning is and control projects are ical lecturing (lectures seminar paper) and hot in the project planning is a seminar paper) and hot in the project planning is a seminar paper and hot in the project planning	nvironment: Use or ganization of the project tearing and manager of the project tearing and manager of the project	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prir omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are ing roles and responding roles and managing ts, creating budy throughout the press, identifying the communication and fostering projects: Utilizing By covering these inciples and gain precical lecturing (action).	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to fexercises),  180 hours 30 hours 30 hours	
13. 14.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estate among project stakeholders and technologies to support will acquire a comprehensi successfully plan, execute,  Learning methods: Theoret independent assignments (state of Total available time  Forms of lecturing	roject management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: Id ensuring effective fating mechanisms to an, and ensuring quablishing effective characteristics. Computer application to project planning, schove understanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lecturing (lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper) and horestanding of pland control projects actical lectures seminar paper p	nvironment: Use organization of the project tearing and manage of the monitor project and its project manager cross various despendent and its project and consultate and its project and consultate and its project and its p	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunical planning acking. I ment prir omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are ing roles and responding to the press, identifying at communication, and fostering projects: Utilizing the covering these and gain projects and gain projects and gain projects and gain projects and gain projects.	pects of project tual factors and nalysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to exercises),  180 hours 30+30+60+60 30 hours	
13. 14. 15.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estate among project stakeholders and technologies to support will acquire a comprehension successfully plan, execute,  Learning methods: Theoret independent assignments (state of Total available time  Allocation of available time  Forms of lecturing activities  Other forms of activities	roject management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: Id ensuring effective fating mechanisms to an, and ensuring quablishing effective characteristics. Computer applications to project planning, schove understanding of pland control projects and control projects and ical lecturing (lectures seminar paper) and hore the seminar paper) and hore the seminar paper.	nvironment: Use organization of the project teating and manage tifying skill research and monitor project ality control. It is a consultating and transport of the constant of	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prin omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are sing roles and responding roles and managing ts, creating budy throughout the press, identifying the communication, and fostering projects: Utilizing By covering these arciples and gain precipited and gain precipited arciples arciples and gain precipited arciples a	pects of project tual factors and halysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to reversible.  180 hours 30 hours 30 hours 60 hours	
13. 14.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estate among project stakeholders and technologies to suppor will acquire a comprehensi successfully plan, execute,  Learning methods: Theoret independent assignments (state of Total available time  Allocation of available time  Forms of lecturing activities  Other forms of activities	Project management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: If the ensuring effective facting mechanisms to an, and ensuring quablishing effective changes. Computer applications to project planning, schove understanding of pland control projects and control projects and ical lecturing (lectures seminar paper) and hot seminar paper).  15.1.  15.2.  16.1.  16.2.	nvironment: Use organization of the project tearing and manage of the project tearing profinancial manamonitor project ality control. It is a project to the project to the project manager cross various design and consultate the project manager project the project the project the project the project the project the projects and projects are study (examples).	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prin omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are sing roles and responding roles and managing ts, creating budy throughout the press, identifying the communication, and fostering projects: Utilizing By covering these arciples and gain precipited and gain precipited arciples arciples and gain precipited arciples a	pects of project tual factors and halysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to exercises),  180 hours 30 hours 30 hours 30 hours 30 hours	
13. 14. 15.	influences that impact project onsiderations. Project orgating an effective production of Developing strategies for refinancial planning and project control: Implement deviations from the plate communication plans, estate among project stakeholders and technologies to suppor will acquire a comprehensi successfully plan, execute,  Learning methods: Theoret independent assignments (state of Total available time  Allocation of available time  Forms of lecturing activities  Other forms of activities	roject management elect management, such anization: Establishing ject structure. Planni esource allocation, ider roject management: Id ensuring effective fating mechanisms to an, and ensuring quablishing effective characteristic computer application to project planning, schove understanding of pland control projects are ical lecturing (lectures seminar paper) and hore than the seminar paper) and hore than the seminar paper.	nvironment: Use organization of the project tearing and manage of the project tearing profinancial manamonitor project ality control. It is a project to the project to the project manager cross various design and consultate the project manager project the project the project the project the project the project the projects and projects are study (examples).	Understar nal cultur im, defin gement quiremen ject cos gement ect proge Projec nmunicar planning acking. I ment prin omains. tions, pra n prepara	nding the contextre, stakeholder are, stakeholder are sing roles and responding roles and managing ts, creating budy throughout the press, identifying the communication, and fostering projects: Utilizing By covering these arciples and gain precipited and gain precipited arciples arciples and gain precipited arciples a	pects of project tual factors and halysis, and legal ponsibilities, and other resources: g team dynamics. gets, monitoring project lifecycle. and addressing ons: Developing ng collaboration ng software tools e topics, students practical skills to exercises),  180 hours 30 hours 30 hours 30 hours	

		(	(presentation: writt	en and oral)			
	17.3.	_	Activity and partici	pation		10 points	
18.	Evaluation criteria	a (points/g	grade)	Up to 50 points From 51 to 60 points		5 (five) (F) 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		10 (ten) (A)	
19.	Requirement for s final exam	ignature a	and passing the	points   Ssing the Completed seminar v			
20.	Language of lectu	ring	Macedonian / English				
21.	Method of monitoring the lecturing quality  Student survey, self-evaluation and external evaluation evaluat						
	Literature						
		Compul	sory literature				
		Ord. No.	Author	Title	Publisher	Year	
		1.	Instructive materials prepared by course Professors				
	22.1.	2.	Kerzner, H., & Kerzner, H. R.	Project management: a systems approach to planning, scheduling, and controlling	John Wiley & Sons	2017	
22.		3.	Hendrickson, C., & Au, T.		Chris Hendrickson	2011	
		Addition	nal literature	1	L	1	
	22.2.	Ord. No.	Author	Title	Publisher	Year	
	22.2.	1.					
		2.					

App	endix no. 3	(	Curricu	lum of Second cycle	of studies	
1.	Subject		Timbe	er structures		
2.	Code		MS-2	06		
3.	Curriculum	ı	Eartho	quake Engineering		
4.	_	of curriculum ute, department,		nte for Earthquake Er nology, UKIM-IZIIS,		neering
5.	Level (first,	, second, third cycle)	secon			
6.	Academic y	vear / semester	First y	year / First semester	7. Number of ECTS credits	6
8.	Lecturer		Assoc	e.prof.d-r Marta Stojn	nanovska	
9.	Preconditio the subject	ns for enrollment in	/			
	Acquaintan physical, m well as with structures.	of the curriculum (compet ace of students with the adv echanical and rheological in the principles and proced	vantage charac	es and disadvantage teristics of timber a	and engineered wo	ood products, as
11.	Timber and wooden stru	f the curriculum: wood-based products. Calcuctures made of monolithic vections. Constructions of glued	vood. N	leans of connection.	Connections and a	
12.	Methods of Lectures, ex	study: ercises, project assignments				
13.	Total availa	ıble time		6 ECTS x 30h=	180h	
14.	Distribution	n of available time		30+30+60+60		
15.	Forms of le activities	ecturing	15.1.	Lectures- theoreti	cal lecturing	30 Hours
			15.2.	Tutorials (laborat seminars, team w		30 Hours
16.	Other forms	s of activities	16.1	Independent tasks	3	60 Hours
			16.2.	Homework		60 Hours
17.	Mode of gr			-		
	17.1. Test	ts				50 Points
	17.2. Sem	inar papers/project ( prese	ntation	: written and oral)		40 Points
	17.3. Acti	vity and participation				10 Points
18.	,			Up to 50	points	5 (five) (F)
				From 51 to 60	•	6 (six) (E)
				From 61 to 70		7 (seven) (D)
				From 71 to 80		8 (eight) (C)
				From 81 to 90	•	9 (nine) (B)
				From 91 to 100	points	10 (ten) (A)

19.	and pass	ing of fi	taining signature nal examination							
20.	Languag	e of lect	uring	Macedonian/English						
21.	Method quality	of monit	oring the lecturing	Surveys and other forms of continuous evaluation						
22.	Literatur	e								
	22.1.	Compu	lsory 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.								

Appe	opendix 3 Subject Curriculum of Second cycle of studies							
1.	Subject		Masonry Structure	es				
2.	Code		MC-207					
3.	Curriculum		Earthquake Enginee					
4.	Organizer of cur		Ss. Cyril and Metho	•	1.5	1		
	(unit, institute, d	epartment,		ake Engineering	g and Engineering Seis	mology,		
5.	section)	and third avala)	IZIIS Second cycle - MSc					
6.	Level (first, secondary Academic Year)		First year	7.	Credit numbers	6		
0.	Academic Tear /	Schlester	Second Semester	/.	Credit numbers			
8.	Lecturer		Prof. Dr. Veronika	Shendova				
			Ass. Prof. Dr. Gora					
9.	Predictions for e	nrollment in the						
	subject		-					
10.	Objectives of the	e curriculum (Con	npetences):					
	The primary goa	als of the subject p	rogram include acqui	ring knowledge	regarding the:			
	1 70	<i>J</i> 1		2	8 8			
	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							
	•	•	ructures					
11.								
	1. Introduction: Masonry as the oldest structural material, types and specifities of masonry structures,							
	modern ma	asonry,						
	2. Seismic pe	erformance of	masonry buildings	: classificatio	n of masonry buil	dings and their		
	behaviour o	during earthqual	xes;		·			
	3. Analysis of	f damage patern	and possible causes	s of failure: cla	asification of damage	e paterns, failure		
	•	ns, cause of failu	-		C	1 ,		
		•	•	concepts for	building configur	ration: building		
	_			_	nd openings distribut	_		
					tars, concrete infill, i			
			of masonry wall;	ic, offek), mor	iars, concrete mim, i	chilorenig steel,		
			•	l and mainfama	d masanmu			
			nry: plain, confined		-	1. C		
	•		•	•	ant masonry structure			
					, numerical example			
	_	_			ry structures: Pravili	nik za tehnicki		
	normativi z	za zidani zidovi	na RM(1991); Euro	code 6, Euroc	ode 8			
12.	Methods of study	v:						
			ons, auditorium and l	aboratory tutor	ials, numerical exampl	es		
13.	Total available ti		180 hours		<u> </u>			
14.	Distribution of a		30+30+30+15+75					
15.	Forms of lecturing	ng activities	15.1.	Lectures - the	oretical lecturing	30 hours		
			15.2.		oratory, auditorium),	30 hours		
				seminars, tear	nwork.			
16.	Other forms of a	ctivities	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 х 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 ob examination	taining signature	and passing of final	50 pt.				
20.	Language of lect	turing		Macedonian/English  Internal evaluation and student surveys				
21.	Method of moni	toring the lecturing	ng quality	Internal evaluation and student surveys				
	Literature							
		Compu	llsory literature					
		Nr.	Author, title, publisher, year					
		1.		Building construction under seismic condition in the Balkan region,				
	22.1.		Volume 3, Design a		one and brick-masonry buildings,			
		2.			esign of Masonry Buildings"			
			Imperial College Pr					
22.		3.			es, Part 1-1: General Rules for			
			Building, EN 1996-	·1-1				
		Additio	onal literature					
		Nr.	Author, title, publis	her, year				
	22.2	1.			thquake resistance, Part 1: General			
	22.2.			ons and Rules for Bu				
		2.			einforced Concrete and Masonry			
					ry), John Wiley & Sons, 1992			
		3.	Lecture notes prepa	red by the professors	of the subject			

App	endix 3	Curriculum o	f the sec	ond cycle of s	study		
1.	Subject	Fundamentals			•		
2.	Code	MS-301					
3.	Curriculum	Earthquake En	gineering	g and Enginee	ering Seismology		
4.	Organizer of curriculum (unit, institute, department, section)	Ss. Cyril and M Engineering ar			n Skopje, Institute of Ear blogy (IZIIS)	thquake	
5.	Level (first, second, third cycle)	Second					
6.	Academic year / semester	Second year / s semester	second	II/2	Number of ECTS credits	6	
8.	Lecturer	Assoc. Prof. D			reska		
9.	Preconditions for enrollment in the subject						
10.	Objectives of the curricul Familiarity with the conculorability and coping	um (competences) ept of seismic risk	):	-		d, exposure,	
11.	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: Theore independent assignments					ercises),	
13.	Total available time	(		(**************************************		180 hours	
14.	Distribution of available time					30+30+60+60	
15.	Forms of lecturing	15.1.	Leo	ctures- theore	tical lecturing	30 hours	
	activities	15.2.		ercises-praction		30 hours	
16.	Other forms of activities	16.1.			ks (seminar paper)	60 hours	
	1	16.2.			am preparation)	60 hours	
17.	Mode of grading	10.2.	110	ine study (CA	an propuration)	oo nours	
1/.	17.1.	Final written exar	n			50 points	
	17.2.	Individual work/s (presentation: wri			er	40 points	
	17.3.	Activity and parti	cipation			10 points	
18.	Evaluation criteria (point	s/grade)		Up to 50 poin	nts	5 (five) (F)	
	pome	<i>3 ·····</i> /		51 to 60 poin		6 (six) (E)	
	1	ļ		61 to 70 poin		7 (seven) (D)	
	1	Ī		71 to 80 poin		8 (eight) (C)	
	1	ļ		81 to 90 poin		9 (nine) (B)	
				91 to 100 poin		10 (ten) (A)	
19.	Condition for obtaining s passing of final examinat			•		30 points	
20.	Language of lecturing		Macedo	onian and Eng	lish		
21.	Method of monitoring the quality	e lecturing	Student	survey, self-	evaluation and external e	valuation	
	Literature						
22.	22.1. Comp	ulsory 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
	Additio	nal literature			
	Ord. No.	Author	Title	Publisher	Year
22.2.	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

Appe	endix n	0.3	Subject Curriculum of Second cycle of studies							
1.	Subjec	t		tran	sport, and infrastru	ctura	ıl systems			
2.	Code		MS-302							
3.	Currici	ulum	Earthqu	ake	Engineering					
4.	Organi		-		d Methodius Uni		•			
		llum (unit,			Earthquake Engir	neeri	ng and Enginee	ering		
		e, department,	Seismol							
5.		first, second, third cycle)	Second	•	le - MSc		1			
6.	Acadeı	mic year / semester	Second year 7. Number of ECTS credit						6	
8.	Lecture	er		Prof. Dr. Vlado Micov Assoc. Prof. Dr. Marija Vitanova						
9.		ditions for nent in the subject	-							
10.	Object	ives of the curriculum (cor	npetence	es):						
		al of the subject program i ructure systems.	s acquiri	ng g	general knowledg	e ab	out bridges, tra	nspor	t, and	
11.	Conter	nts of the curriculum:								
	types investi accord bridges	basics, parts of bridge stru of bridges according to gations and design foundat ing to structural systems, I s. Bridge calculation. Comp tes for transportation and in	various ions, cho oridge co ponents o	cr oice onstr	iteria; Design conflevels, foundate ruction; bridge equation construction and	ondi ions juipr	tions for brid , free profiles. T nent (bearings,	lges: Types etc.);	necessary of bridges Loads on	
12.	Metho	ds of study:								
		etical lecturing through inte	eractive 1	ectu	res, practical lect	urin	g, completion of	of inde	ependent	
		and homework learning.			T					
13.		vailable time			180 hours					
14.		ution of available time			30+30+40+40-			1		
15.	Forms	of lecturing	15		Lectures- theoretic		U		30 hours	
			15	.2.	Tutorials (laborat	tory,	auditorium),		30 hours	
					seminars, team w	ork				
16.	Other f	forms of activities	16	.1.	Design tasks				40 hours	
			16	.2.	Independent task	S			40 hours	
			16	.3.	Homework				40 hours	
17.	Mode	of grading	[	1				1		
	17.1.	Tests								
	17.2.	Seminar papers/project ( p	presentation: written and oral)						80 points	
	17.3.	Activity and participation							20 points	
18.		<u> </u>			Up to 50	poi	nts	5	(five) (F)	
					From 51 to 60	_			$\frac{(\text{six})(\text{E})}{6(\text{six})(\text{E})}$	
					From 61 to 70	_			seven) $(D)$	
					From 71 to 80				(eight) (C)	
					From 81 to 90				(nine) (B)	
					From 91 to 100				(ten) (A)	

19.	Condition for obtaining signature and passing of final examination  Language of lecturing			50 points				
20.	Languag	e of lectu	uring N	Macedonian/English				
21.	Method quality	of monite	oring the lecturing I	Internal evaluation and student surveys				
22.	Literatur	e						
	22.1.	Compul	lsory literature					
		No.	Author	Title	Publisher	Year		
		1. Jure Radic, Anan Mandid 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.	Additio	nal literature					
		No.	Author	Title	Publisher	Year		
		1.	Andreas J. Kappos l M. Saiid Saiidi, M. Nuray Aydınogʻlu 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		

1	pendix 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	2 <sup>nd</sup> / 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)	Passed exams: 1. Dynamic of structures (MS-101)					
10.	the techniques for experimental tes	petences): I knowledge in the field of experimental mechasting of elements and structures in full scale and ondition and response of structures in exploitation.	d in laboratory					
	Physical Models, Dimensional An Models: Truly Reproduced, Adec Characteristics for Models, Effects Size Effect. Materials for Physica Concrete, Plaster, and a Mixture Reinforced Concrete, Masonry, Ste of Shake Tables - Field of Applic Quasi-Static Testing of Elements a Variables; Stiffness and Deformal	nanics; Physical Modelling in Structural Engine halysis - Buckingham's Theorem, Examples, Toquate, Distorted. Linear Models; Nonlinear Models: Plastic, Epoxy Resins, Metals and of Plaster and Sand, Reinforcement Simulation eel Structures. Examples. Seismic Shake Tables exation. Degrees of Freedom. Testing Methodo and Structures - Definition, Field of Application bility, Ductility and Energy Dissipation. Proceedings.	ypes of Physical Models; Material pendent Effects, Alloys, Micro- on. Modelling of					
	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation	es; Controlled Variables. Examples. Testing esting, Testing Methods, Testing with Forced Variable, Testing with Forced Variable, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Conditional imental Data.	logy. Examples. n, and Identified edure for Quasig of Full-Scale ibration Method, ntified Variables. nd Application.					
12.	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation Monitoring the Condition and Re Processing, and Analysis of Exper Methods of study:	esting, Testing Methods, Testing with Forced Viethod, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Condition	logy. Examples. n, and Identified edure for Quasig of Full-Scale ibration Method, ntified Variables. nd Application. ons. Acquisition,					
12.	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation Monitoring the Condition and Re Processing, and Analysis of Exper. Methods of study: Interactive lectures with presentati problems, literature study.  Total available time	esting, Testing Methods, Testing with Forced Viethod, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Conditionimental Data.	logy. Examples. n, and Identified edure for Quasig of Full-Scale ibration Method, ntified Variables. nd Application. ons. Acquisition,					
13. 14.	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation Monitoring the Condition and Re Processing, and Analysis of Experimental Methods of Study: Interactive lectures with presentation problems, literature study.  Total available time  Distribution of available time	esting, Testing Methods, Testing with Forced Viethod, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Conditionimental Data.  Ons, classroom exercises with presentations of 180  30+30+60+60	logy. Examples. n, and Identified edure for Quasi- g of Full-Scale ibration Method, ntified Variables. nd Application. ons. Acquisition, solved					
13.	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation Monitoring the Condition and Re Processing, and Analysis of Exper. Methods of study: Interactive lectures with presentati problems, literature study.  Total available time	esting, Testing Methods, Testing with Forced Viethod, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Conditionimental Data.  Ons, classroom exercises with presentations of	logy. Examples. n, and Identified edure for Quasig of Full-Scale ibration Method, ntified Variables. nd Application. ons. Acquisition, solved  30 Hours					
13. 14.	Structures. Need and Purpose of Te Testing with Ambient Vibration M Transducers and Instrumentation Monitoring the Condition and Re Processing, and Analysis of Experimentation Methods of study: Interactive lectures with presentation problems, literature study.  Total available time Distribution of available time Forms of lecturing	esting, Testing Methods, Testing with Forced Viethod, Theory, Equipment, Procedure, and Ider of Structures and Models - Principles a esponse of Structures in Operational Conditionimental Data.  Ons, classroom exercises with presentations of 180  30+30+60+60	logy. Examples. n, and Identified edure for Quasi- g of Full-Scale ibration Method, ntified Variables. nd Application. ons. Acquisition, solved					

				16.3.	Hon	nework		60 Hours	
17.	Mode	of grading	<u>.</u>						
		Tests						50 Points	
	17.2.	Seminar	papers/project (presenta	tion:	writt	en 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		(seven) (D)	
						From x to x points		(eight) (C)	
						From x to x points		(nine) (B)	
						From x to x points		0 (ten) (A)	
19.	Condit	ion for ob	taining signature	Fo	r sig	nature	•		
			nal examination		1.	Attendance on lect	ures and TUTOR	IALS	
					2.	Completed semina	r work.		
					For final examination, additionally:				
						Passed exams:			
					3. Structural Dynamics (MS-101)				
					4.	Finite Element Ana	alysis (MS-102)		
20.	Langua	ige of lect	turing	M	aced	onian and English			
21.	Methoo quality		toring the lecturing	St	ıdent	survey, self-evaluatio	n and external eval	luation	
22.	Literat								
22.	22.1.		ılsory literature						
	22.11	No.	Author			Title	Publisher	Year	
		140.	Author			Title	1 donsilei	1 Cai	
		1.	Piotr D. Moncarz, He model analysis in eart Engineering Center, S	hqua	ke en	gineering. The John	A. Blume Earth		
		2.	Harry G. Harris, Gaja Techniques, Second F				ng and Experimer	ntal	
	22.2.	Additio	onal literature						
		No.	Author			Title	Publisher	Year	
	1. Instructive materials pre					y IZIIS' lecturers or	the subject.	ı	

App	endix 3	Curriculum of the second cycle of study						
1.	Title of the lecturing	Geotechnical I	Earthqua	ike Enginee	ering			
2.	subject Code	MS-304						
3.	Study program	Earthquake En	oineerir	o and Engi	ineerin	g Seismology		
4.	Organizer of the study					kopje, Institute of	Ear	thquake
''	program (unit, i.e. institute,	Engineering ar					Lui	unquane
	department, section)					,		
5.	Degree (first, second, third cycle)	Second cycle -	MSc					
6.	Academic year / semester	Second year Third Semester	r	7.	Num	ber of ECTS cred	its	6
8.	Lecturer	Prof. Vlatko S						
		Assoc. Prof. K						
		Assoc. Prof. Ju Prof. Violeta N	Julijana Bojadjieva					
9.	Preconditions for	Prof. violeta N	incevsi	<u>ka</u>				
<i>)</i> .	enrollment in							
	the subject							
10.	Objectives of the curriculum	n (competences):						
	The main objectives of the	ne subject progra	am are:	obtaining	know	ledge in the fiel	ld o	of earthquake
	geotechnical engineering, t							
	geotechnical phenomena (s			subsidence	e, wea	k soil environme	nts,	liquefaction,
	dynamic amplification of th	e earthquake action	on etc.)					
11.	Contents of the curriculum:							
		_	_				_	
	I. Природа и состав н							
	Класификација на почви тестирање на почвите Рел							
	конструкции Потпорни ко							
	фундаменти Фундаменти							
	конструкција Деформации							
12.	Learning methods: Lectures equipment, seminar work	s, exercises, labora	atory ex	ercises and	equipr	nent, use of softw	are	
13.	Total available time							180 hours
14.	Allocation of available time						30+3	30+30+20+70
15.	Forms of lecturing activities	15.1.				ical teachins		30 hours
		15.2.	sem	inars, teamy	work.	classroom),		30 hours
16.	Other forms of activities	16.1.		ect assignm				30 hours
		16.2.	Inde exar	pendent tas	sks (wr	ritten/oral		20 hours
		16.3		nework				70 hours
17.	Mode of grading		1					, 5 110415
	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/g	rade)		Up to 50 pc	oints			5 (five) (F)
	(F	,		51 to 60 pc				6 (six) (E)
			From	61 to 70 pc	oints			7 (seven) (D)
			From	61 to 70 pc 71 to 80 pc 81 to 90 pc	oints			7 (seven) (D) 8 (eight) (C) 9 (nine) (B)

				From 91 to 100		10 (ten) (A)			
				points					
19.	Requirement for signal exam	gnature an	nd passing the			50 points			
20.	Language of lectur	ing		Macedonian and English					
21.	Method of monitor quality	ing the lec	cturing	Internal evaluation and student surveys					
	Literature								
		Compul	Compulsory literature						
	22.1.	Ord. No.	Author	Title	Publisher	Year			
		1.	Kramer, Steven L	Geotehnical Earthquake Engineering	Prentice Hall	1996			
22.		2.	Renato Lancelota	Geotechnical Engineering	Balkema	1979			
		3.	Ikuo Towhata	Geotehnical Earthquake Engineering	Springer	2008			
		Addition	nal literature						
		Ord. No.	Author	Title	Publisher	Year			
	22.2.	1.	Instructional m	naterials prepared by the	professors of the su	bject			
		2.	Joseph E. Bow Publishing	les Foundation Analysis	and McGraw-Hill 2	2001 Design			
		3.	T. V. Lambe S	oil Mechanics Series in	Soil Engineering				

App	endix 3		m of Second cycle o			
1.	Subject		thening of Building S	Structures – Basio	Principles	
2.	Code	MC-305				
3.	Curriculum	Earthquake Engine		1 .		
4.	Organizer of curriculum		odius University in S		malagy IZHC	
	(unit, institute, department, section)	institute of Earthqu	ake Engineering and	Engineering Seis	illology, IZIIS	
5.	Level (first, second, third cycle	e) Second cycle - MS	0			
6.	Academic Year / Semester	First year		lit numbers	6	
0.	Academic Tear / Semester	Third Semester	7.	nt numbers	0	
8.	Lecturers	Prof. Dr. Veronika Prof. Dr. Roberta				
9.	Predictions for enrollment in t subject	he -				
10.	Objectives of the curriculum (	Competences):				
	The primary goals of the sustrengthening of building struc		acquiring basic kno	wledge in the fie	eld of repair and	
	<ol> <li>Basic concepts of post-oprocess</li> <li>Types of post-earthquameasures in critical situ</li> <li>Design process for posinvestigation, criteria funderstand the structur damage level, choice of detailed analysis of verification; case study</li> </ol>	ake damage to building tations. t-earthquake repair and for repair and/or strenal system and condition of materials and technal	ngs and their categod strengthening of ngthening, completons for its constructional solution for re-	orization, temporal building structurion of a detailection, analysis and pair and/or stre	orary protection res: preliminary ed inspection to d assessment of ngthening, final	
12. 13.	Methods of study: Interactive lectures with presentation available time	ntations, auditorium and	laboratory tutorials, i	numerical example	es	
14.	Distribution of available time	30+30+30+20+70				
15.	Forms of lecturing activities	15.1.	Lectures - theoretic	eal lecturing	30 hours	
13.	1 orms of rectaring activities	15.2.	Exercises (laborate	ory, auditorium),	30 hours	
16.	Other forms of activities	16.1.	seminars, teamwor Design tasks	К.	30 hours	
10.	other forms of activities		Ŭ.			
		16.2.	Independent tasks		20 hours	
	25.1	16.3.	Homework		70 hours	
17.	Mode of grading	White		1		
	17.1.	Written exam		20 points		
		Oral exam		30 points		
		Seminar work		35 points		
	17.4.	Activity		15 points		
18.	Grading criteria (points / grade	e)	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.	1	9 (nine) (B)	
10		1 . 22 -	од 91 до 100 рt.		10 (ten) (A)	
19.	Condition for obtaining signat examination	ure and passing of final	50 pt.			
	Language of lecturing	_	Macedonian/English			

21.	Method of monitoring the lecturing quality		g quality	Internal evaluation and student surveys			
	Literature						
		Compu	Compulsory literature				
	22.1	Nr.	Author, title, publis	sher, year			
	22.1.	1.	Volume 5, Repair a	on under seismic condition in the Balkan region, and Strengthening of reinforced concrete, stone and dings, UNDP/UNDO RER/79/15			
22.		Additio	onal literature				
22.		Nr.	Author, title, publis	sher, year			
	22.2.	1.		ania Earthquake on the 26th November 2019, EEFIT 019. Post-earthquake field report. June 2020 (Chapters 6,			
		2.	<u> </u>	rthquake Reconstruction Program, University of Civil Engineering & Croatian Chamber of Civil n Croatian)			
		3.	Lecture notes prepa	ared by the professors of the subject			

App	endix 3		Curriculum of the	second	cycle of stud	ly				
1.	Subject		Nonstructural eleme	nts						
2.	Code		MS-306							
3.	Curriculum		Earthquake Engineer							
4.	Organizer of curr (unit, institute, department, secti			Ss. Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)						
5.	Level (first, second third cycle)		Second	Second						
6.	Academic year / semester		Second year / third semester							
8.	Lecturer		Assoc. Prof. Dr. Ale Prof. Dr. Zoran Raki		a Bogdanovic					
9.	Preconditions for enrollment in the subject	ſ	Completed subjects:  1) Dynamic of st 2) Basics of expe	ructure		, mo	nitoring, and testing	of structures		
10.	Objectives of the		lum (competences): pt of application, behav				-			
11.	during earthquak Seismic design o in the event of an experimental test Methods of study	finition a es; Caus f nonstru earthquaing in the y: Theore	and classification of values of damage from ear actural elements; Seisn take (partition walls, subject IZIIS laboratory; Re- etical lecturing (lecture	thquaknic beholespende comments and	es; Seismic a avior of diffe ed ceilings, fa endations. consultations	nalys rent cade , pra	sis of non-structural types of nonstructures, raised floors), exa	elements; al elements amples from		
			(seminar paper) and he	ome st	udy (exam pre	epara	ation).			
13.	Total available ti	me						180 hours		
14.	Distribution of av	vailable					3	30+30+60+60		
15.	Forms of lecturin	ng	15.1.	Le	ectures- theore	etical	lecturing	30 hours		
	activities		15.2.	Ex	ercises-practi	ical 1	ecturing	30 hours		
16.	Other forms of ac	ctivities	16.1.	Inc	dependent tas	ks (s	eminar paper)	60 hours		
			16.2.	Н	ome study (ex	am p	preparation)	60 hours		
17.	Mode of grading		TH. 1				T			
	17.1.		Final written exam					50 points		
	17.2.		Individual work/semin	ar or p	roject paper			40 points		
			(presentation: written a	esentation: written and oral)						
	17.3.		Activity and participat	ion				10 points		
18.	Evaluation criteri	ia (point	s/grade)		Up to 50 po			5 (five) (F)		
					n 51 to 60 po			6 (six) (E)		
				From 61 to 70 points		7 (seven) (D)				
					n 71 to 80 po			8 (eight) (C)		
				Froi	n 81 to 90 po			9 (nine) (B)		
					From 91 to			10 (ten) (A)		
10	C 1'4'		·		po	ints		20 : .		
19.			ignature and passing					30 points		
20.	of final examinat Language of lect			Mace	edonian and E	inglis	sh			
21.	Method of monit quality	oring the	e lecturing	Stude	ent survey, se	lf-ev	aluation and externa	l evaluation		
	Literature	1		l						
22.	22.1.	Ord.	alsory literature  Author		Title		Publisher	Year		
		No.								

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

App	endix 3	Curriculum of the	second cycle of stu	ıdy					
1.	Subject	New technologies for	or design of structur	res					
2.	Code	MS-307							
3.	Curriculum	Earthquake Enginee	ring and Engineering	ng Seismology					
4.	Organizer of curriculum			Skopje, Institute of Ea	rthquake				
	(unit, institute,	Engineering and Eng	gineering Seismolo	gy (IZIIS)					
	department, section)								
5.	Level (first, second, third cycle)	Second							
6.	Academic year / semester	Second year / third semester	Second year / third II/3 Number of ECTS 6 semester credits						
8.	Lecturer	Assoc. Prof. Dr. Ale Prof. Dr. Zoran Rak		ic					
9.	Preconditions for	Completed subjects:							
	enrollment in	1) Dynamic of st							
	the subject			es, monitoring, and tes	ting of				
	J	structures							
10.	Objectives of the curriculu	m (competences):							
	Introduction to the concept seismic events.		or, and analysis of	nonstructural element	s during				
11.	Contents of the curriculum	:							
	Introduction; Basic princip	les for designing seisn	nic-resistant structu	res; New technologies	s for designing				
	seismic-resistant structures	; Designing structures	with seismic isolat	ion; Designing structu	res with				
	passive energy dissipation	systems; Application of	of computer program	ms for analysis of stru	ctures with				
	seismic isolation and energ								
12.	Methods of study: Theoret				xercises),				
	independent assignments (	seminar paper) and hor	me study (exam pre	eparation).					
13.	Total available time				180 hours				
14.	Distribution of available time				30+30+60+60				
15.	Forms of lecturing	15.1.	Lectures- theore	etical lecturing	30 hours				
	activities	15.2.	Exercises-practi		30 hours				
16.	Other forms of activities	16.1.	-	ks (seminar paper)	60 hours				
		16.2.	Home study (ex		60 hours				
17	Mada af an din a	10.2.	Tionic study (cx	am preparation)	00 Hours				
17.	Mode of grading	Einelitten			70 : 4				
		Final written exam			50 points				
	17.2.	Individual work/semir	ar or project paper		40 points				
		(presentation: written	and oral)		•				
	17.3.	Activity and participat	cion		10 points				
18.	Evaluation criteria (points/	grade)	Up to 50 poi	ints	5 (five) (F)				
10.	2. aradion criteria (polite)	5.000)	From 51 to		6 (six) (E)				
				ints	5 (SIA) (L)				
			From 61 to		7 (seven) (D)				
				ints	. (20,011)				
			From 71 to		8 (eight) (C)				
				ints	- (6)				
			From 81 to		9 (nine) (B)				
			poi		/ (-/				
			From 91 to 1		10 (ten) (A)				
				ints	\ /\ \				
19.	Condition for obtaining sig	gnature and passing	<u>F</u> _	1	30 points				
•	of final examination	. 1 6			r				
20.	Language of lecturing		Macedonian and I	English					
21.	Method of monitoring the	lecturing	Student survey, se	elf-evaluation and exte	ernal evaluation				
	quality	· · · · · · · · · · · · · · · · · · ·							
22.	Literature								

	Compul	sory literature			
	Ord. No.	Author	Title	Publisher	Year
	1.	Bogdanovic A., Rakicevic Z., Gjorgjiev I.	Selected teaching materials with solved examples.	UKIM-IZIIS	2019
22.1.	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
	Additio	nal literature			
	Ord. No.	Author	Title	Publisher	Year
22.2.	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

Atta	chment.3		m of Second cycle o	of studies				
1.	Subject		Seismic design of dams					
2.	Code	MC-308						
3.	Study Programme	Earthquake Engine	ering					
4.	Organizer	Institute of Earthqu	ake Engineering and	Engineering Seis	mology			
5.	Degree (first, second, third cycle)	Second cycle - MSe	Second cycle - MSc					
6.	Academic Year / Semester	First year Second Semester						
8.	Professor	Prof. Violeta Mirce Prof. Viktor Hristo						
9.	Course prerequisites	-						
10.	Aims of the subject (Competer	ences):						
	Profound knowledge in the fi and reliable assessment of th			nenomena that affo	ect their behavior			
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 (lecture paper) and home study (exam	es) and consultations, pra	actical teaching (exe	ercises), independ	ent tasks (project			
13.	Total available number of lectures	180hours						
14.	Setting of available number of lectures	of 45+45+30+30+30						
15.	Teaching activities	15.1.	Lecturing and theoretical teachins 45hours					
		15.2.	Exercises (laborate seminars, teamwork		45 hours			
16.	Other forms of activities	16.1.	Project assignmen	30 hours				
		16.2.	Independent tasks	(written/oral				
		10.2.	exam)		30 hours			
		16.3.	Homework		30hours			
17.	Grading	1	I		1			
	17.1.	Written or oral exam		50points				
	17.3.	Seminar work		•				
	17.4.	Activity		40points				
10		•		10points	F (£:_ \\ (T)\			
18.	Grading criteria (points / grad	ie)	upto 50 pt.		5 (five) (F)			
			51 x to 60 pt.		6 (six) (E)			
			61 х до 70 pt. од 71 до 80 pt.	+	7 (seven) (D)			
			од 71 до 80 pt. од 81 до 90 pt.		8 (eight) (C) 9 (nine) (B)			
			од 91 до 100 рt.		10 (ten) (A)			
19.	Requirement for signature an	d passing the final exam		1	10 (tell) (A)			
		as passing the imal exam	50 pt.	1.				
20.	Course language		Macedonian/Engli	sn				
21.	Monitoring method for teach	ing quality	Internal evaluation	and student surve	eys			
	Literature	Literature						

	Compu	sory literature		
	Nr.	Author, title, publisher, year		
22.1.	22.1. FIRST EDITION 1976	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, I AMERICAN TEXTBOOK PROGRAMME, FIRST EDITION 1976			
	3.	Arch Dam Design, Arch Dam Design, Capítulo 8, USACE, Washington, DC, USA, FIRST EDITION 1994		
	Additio	nal literature		
	Nr. Author, title, publisher, year			
22.2.	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 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		

App	endix no. 3	(	Curricu	lum of Second cycl	e of st	tudies			
1.	Subject		Design of engineering steel structures						
2.	Code		MS-3	MS-309					
3.	Curriculum	1	Earth	Earthquake Engineering					
4.		of curriculum ute, department,		ute for Earthquake E nology, UKIM-IZIIS			eering		
5.	Level (first	, second, third cycle)	secon	d					
6.	Academic y	year / semester	First	year / third semester	7.	Number of ECTS credits		6	
8.	Lecturer		prof.	Dr. Vlado Micov Dr. Igor GJORGJIE` Dr. Marija Vitanova					
9.	Precondition the subject	ons for enrollment in	/						
10.	Acquiring k	of the curriculum (compet nowledge about the principle tails and connections.			engir	neering steel stru	ıctures,		
12	engineering and bending	vers and transmission lines. objects. Calculation of the log length. Structural details vanti-corrosion protection, tra	oad capa with ca	acity and stability of lculation of connec	the co	onstruction elem	ents, sl	lenderness	
12.		ercises, project assignments							
13.	Total availa	able time		6 ECTS x 30h=	180h				
14.	Distribution	n of available time		30+30+40+40+	40				
15.	Forms of le activities	ecturing	15.1.	Lectures- theoret	ical le	ecturing		30 Hours	
			15.2.	Tutorials (labora seminars, team w	-	auditorium),		30 Hours	
16.	Other forms	s of activities	16.1.	Design tasks				40 Hours	
			16.2.	Independent task	S			40 Hours	
			16.3.	Homework				40 Hours	
17.	Mode of gr							40 Points	
			ntation	ittan and anal					
	17.2. Sem	ninar papers/project ( prese	auon	. written and oral)				40 Points	
	17.3. Acti	ivity and participation			<u> </u>			20 Points	
18.				Up to 5	•			(five) (F)	
				From 51 to 6				$\frac{(\sin)(E)}{(E)}$	
				From 61 to 7				even) (D)	
				From 71 to 8				eight) (C)	
				From 81 to 9				nine) (B)	
				From 91 to 100 points 10 (t					

19.			taining signature nal examination	Attendence of lectures and exercises. A condition for the exam is completed seminar works						
20.	Languag			Macedonian/English						
21.	quality		oring the lecturing	Surveys and other forms of continuous evaluation						
22.	Literatur	1								
	22.1.	_	lsory literature		_	1				
		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	Граџевинска 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				

Appen	ndix no. 3		Cur	riculum of Secor	nd cycle of studies				
1.	Subject		Practice						
2.	Code								
3.	Curriculun	n	Earthquak	Earthquake Engineering					
4.	Organizer (unit, instit			m Institute for Earthquake Engineering and Engineering Seismology, UKIM-IZIIS, Skopje					
5.	Level (first cycle)	t, second, th	nird Second						
6.	Academic	year / seme	Second year Fourth ser		7. Number of ECT	S 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.	Precondition enrollment	ons for in the subj	ect /						
10.	Objectives To provide	of the curr practical k	iculum (compe	e domain of the	subjects that are studie	ed in the second			
	have an instesting of edestructive materials a	sight into the elements, co e tests of str	ne process of reconnections or couctures, definitation potential of	alization of vari ompositions, dy ion of dynamic	the laboratories of UKI ous laboratory tests (quamic testing of structucharacteristics for different and analysis of data	asi-static ares, non- erent soil			
11.	Stay of the choice for Process of	a duration o	n one of the land of 10 working on and implement	days. Content in entation of appro	UKIM-IZIIS according cludes the following acopriate laboratory and f	etivities: ield tests.			
	review, ar	appropria	ite report/semi		ld present to the subjected duration of the ice.				
12.	Methods o	f study:		inar work/project					
13.	Total avail	able time		150					
14.	Distributio	n of availal	ole time	80+.	50+20				
15.	Forms of leactivities		15.1.		one of the laboratories	80 Hours			
			15.2		on of a report/seminar	50 Hours			
					20 Hours				
16.	Other form activities	ns of		<b>I</b>					

	7. 8.	Grad	rading criteria (points/grade)			Up to 50	points	5	(five) (F)
						From 51 to 60	points		6 (six) (E)
						From 61 to 70	points	7 (s	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)
1	9.	9. Condition for obtaining signature and passing of final examination			Regularity of practice, preparation of report/seminar work.				
2	20.	_	guage of lea	cturing	Macedonian/English				
2	21.		nod of mon ring qualit		Surveys and other forms of continuous evaluation				
22.	Lite	rature		-					
	22	2.1.	Compulso	ory literature					
			No.	Author		Title	Publi	sher	Year
			1.						
	22	2.2. Additional literature							
			No.	Author		Title	Publis	sher	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		ata on lecturers teach dies and mentors of c	ing within the curriculums loctoral dissertations	s of the first,	the seco	nd and the third cycle of
1.	Name a	and sur	name	Veronika Shendova			
2.	Date of	f birth		5 <sup>th</sup> June 1961			
3.	Educat	ion lev	el	PhD			
1.	Title of	scienti	fic degree achieved	Doctor of technical scien	ice		
5.			nen the lecturer	Education	Year		Institution
			his/her acquired a	Graduated civil engineer	1984		Faculty of Civil Engineering, UKIM
	scientif	fic degr	ee	Master of Science	1988		UKIM-IZIIS
				Doctor of technical science	1998		UKIM-IZIIS
ó.	Field, d	disciplin	e and sub-	Field	Discipline		Sub-discipline
	discipli	ine of M	I.Sc. Degree	Technical Science	Civil Engi	neering	Earthquake Engineering
7.	Field, d	disciplin	e and sub-	Field	Discipline		Sub-discipline
	discipli	ine of P	h. D. degree	Technical Science	Civil Engi	neering	Earthquake Engineering
3.			is in a working	Institution		Title in	which he/she has been
			e/she should state				and in which field
			on, the awarded title	UKIM-IZIIS		Professo	or
).		which f		es separately in the first, the s			
	9.1.	List of No.  1. 2.	Subjects that the lecture Title of the subject	er teaches at the first cycle of	f studies Curriculum /	institutio	n
	9.2.		subjects that the lectur	rer teaches at the second cyc	le of studies		
	7.2.	2150 01	subjects that the rectal	as principal			
		No.	Title of the subject		Curriculum/i	nstitutio	1
		1.	Nonlinearity in Engi	neering Materials	Earthquake Engineering/IZIIS		
		2.	Masonry Structures		Earthquake l		
		3.	Repair and Strengthe Structures – Basic Pr		Earthquake 1	Engineer	ring/IZIIS
	9.3.	List of	subjects that the lectur	rer teaches at the third cycle	of studies		
				as principal	lecturer		
		No.	Title of the subject		Curriculum/i	nstitution	1
		1.	Advanced Engineeri	ng Materials	Earthquake 1	Engineer	ring/IZIIS
			Repair and Strengthe Structures	ning of Building	Earthquake l Earthquake l Earthquake l	Engineer	ring/IZIIS

10.1.		vant published scientific papers (up						
	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.								
	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 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				

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 p	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.	Mentor	ship at unde	ergraduate, master and doctora	l studies		
	11.1.	Final exam	inations for award of diploma		/	
	11.2.	M. Sc. thes	es		/	
	11.3.	Doctoral di	ssertations		3	
12.	For the	mentors of c	loctoral theses, selected results	achieved in the last four/five years		
	12.1.			published in international scient up to six) for the last five years	tific journals or international	
		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 R.N. Macedonia							
-	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: 10.1080/19648189.2020.17						
-	5.	Shendova V.	Seismic Retrofitting of Structures, Historic Buildin, 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 II	Model of seismic design late force levels for the existing reinforced concrete Europe building stock	Engineering 19, 2839–286.						
.2.	Evidence on at least two scientific-research papers published in international scientific journal with									
		or in the given field for the last								
	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.						
.3.	Evidence o	l nat least three participations in	international meetings for the	l e last four years						
-	No.	Authors	Title of paper	International meeting/ Year Conference						
-	1.	Shendova V.	Seismic Retrofitting of Historic Buildings and Monuments-IZIIS Approach- invited lecture	International FSE-UACG Conference, Sofia, Bulgaria						

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		ta on lecturers teachin studies and mentors of	g within the curriculun doctoral dissertations	ns of the first,	the seco	nd and the third cycle		
1.	Name	and sur	name	Prof. Dr Viktor HRIST	OVSKI				
2.	Date of	of birth		26.11.1963					
3.	Educa	tion lev	el	Doctor of technical sciences					
ŀ.	Title o	f scienti	fic degree achieved	Full professor in UKIN	M-IZIIS, Skopj	e			
5.			nen the lecturer	Education	Year		Institution		
			his/her education and entific degree	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		
5.	Field.	disciplin	ne and sub-discipline of	Field	Discipline		Sub-discipline		
		degree	•	Technical Sciences	Civil Engi	neering	Earthquake Engineering		
7.	Field,	disciplin	ne and sub-discipline of	Field	Discipline		Sub-discipline		
	Ph. D.	degree	·	Technical Sciences	Civil Engi	neering	Earthquake Engineering		
3.		ne lecturer is in a working tionship, he/she should state		Institution			which he/she has been and in which field		
	his/her		on, the awarded title	UKIM-IZIIS, Skopje		Full Pro			
).	List of	subject	s that the lecturer teache	s separately in the first, the	he second and	the third	cycle of studies		
	9.1.	List of	subjects that the lecture	r teaches at the first cycle	e of studies				
		No.	Title of the subject	,	Curriculum /	institutio	on		
		1.							
		2.							
	9.2.		Subjects that the lecture	r teaches at the second cy	vole of studies				
	7.2.	No.	Title of the subject	1 teaches at the second cy	Curriculum /	institutio	on		
		1.	Dynamics of structur	es			ing / UKIM-IZIIS,		
		2.	Finite element analys	iis	Earthquake of Skopje	engineer	ing / UKIM-IZIIS,		
	9.3.	List of	Souhigate that the leature	r teaches at the third cycl	e of studies				

		1.	Dynamics of structurengineering	es in earthquake	Earthquake engineer Skopje	ing / UKIM-IZIIS,
		2.	Advanced structural	dynamics	Earthquake engineer Skopje	ing / UKIM-IZIIS,
		3.	Advanced analysis of	f structures and continua	Earthquake enginee. Skopje	ring / UKIM-IZIIS,
		4.	Nonlinear finite elem	nent analysis	Earthquake enginee Skopje	ring / UKIM-IZIIS,
10.	Selecte	d result	s achieved in the last f	ïve years		
	10.1.	Releva	nt published scientific	papers (up to five)		
		No.	Authors	Title		Publisher/year
		1.	Nikola Naumovski, Viktor Hristovski,	Influence of railway indi	uced vibrations on	Croatian Association
			Lidija Krstevska	structures and humans is	n urban areas,	of Civil Engineers,
				Gradevinar 74 (2022) 9,	769-778, DOI:	2022
				https://doi.org/10.14256	/JCE.3398.2021	
		2.	Jurij Jančar, Trajče Zafirov, Miroslav	Seismic resistance of exi	sting buildings with	Croatian Association
			Premrov, Bruno Dujič, Viktor	added light timber struct	ture storeys,	of Civil Engineers,
			Hristovski	Gradevinar 74 (2022) 5,	403-417, DOI:	2022
		3.	Viktor Hristovski, Marija Vitanova, Nikola Hristovski	Experiences in Seismic I Bearings for RC Bridges Eurocodes and EN 1337 17th World Conference Engineering, 17 WCEE, September 13th to 18th 2	s According to ', Paper No C000724 on Earthquake Sendai, Japan,	17 WCEE, Sendai, Japan, 2020
		4.	Violeta Mircevska, Miroslav Nastev,	Eigenvalue solution for a	arch dams: ADAD-	Croatian Association
			Viktor Hristovski, Ivana Bulajic	IZIIS Software, Gradevii	nar 70 (2018) 10,	of Civil Engineers,
				881-890, DOI:		2018
				https://doi.org/10.14256	/JCE.1662.2016.	
		5.	Viktor Hristovski, Violeta Mircevska,	Comparative dynamic in	evestigation of cross-	Sage Journals, 2018
			Bruno Dujic and Mihail Garevski	laminated wooden panel	systems: Shaking-	
				table tests and analysis,	Advances in	
				Structural Engineering,	Volume 21 Issue 10,	
				July 2018, 1421 – 1436,		

	10.2.	Particip	ation in scientific-rese	arch and international projects (up to five)	
		No.	Authors	Title	Publisher/year
		1.	Учесник во Infranat	INFRA-NAT – Increased Resilience of	2018-2019
			проек, водачи:	Critical Infrastructure to Natural and	
			Михаил Гаревски,	Human-Induced Hazards, 783298 – INFRA-	
			Влатко Шешов	NAT – UCPM-2017-PP-AG, Duration 24	
				months, 1st January 2018, - 31st December 2019.	
	10.3.	Dublich	Led books in the last fi		
	10.5.	No.	Authors	Title	Publisher/year
		110.	Audiois	Title	r ublisher/year
		1.			
		2.			
		3.			
		4.			
		5			
	10.4.	Publish	ed professional paper	s for the last five years (up to five)	
		No.	Authors	Title	Publisher/year
		1.	Viktor Hristovski,	Detailed design and technical assistance for	Eurobobild
			Marija Vitanova,	section Kumanovo – Beljakovce, Republic of	Engineering, DOOEL
			Nikola Hristovski	Macedonia, Design of structural bearings,	Skopje, Republic of
				Railway Underpass structures UP45, UP46,	Macedonia, Skopje,
				UP47, UP48, UP49, Corridor VIII – Eastern section.	July 2019
				section.	
		2.	Viktor Hristovski,	Detailed design and technical assistance for	Eurobobild
			Marija Vitanova,	section Kumanovo – Beljakovce, Republic of	Engineering, DOOEL
			Nikola Hristovski	Macedonia, Design of structural bearings,	Skopje, Republic of
				Railway bridge structure BR54, Corridor VIII	Macedonia, Skopje,
				– Eastern section.	July 2019
		3.	Viktor Hristovski,	Detailed design and technical assistance for	Eurobobild
			Marija Vitanova,	section Kumanovo – Beljakovce, Republic of	Engineering, DOOEL
			Nikola Hristovski	Macedonia, Design of structural bearings,	Skopje, Republic of
				Road Overpass Structures OP30, OP31,	Macedonia, Skopje,
				OP32, OP33, OP34, Corridor VIII – Eastern	July 2019
				section.	
		4.	Viktor Hristovski	Over100 expert opinions for designed and	УКИМ-ИЗИИС,
				executed level of strength, stability and	2018-2022
				seismic protection of structures in Macedonia	
		_			
	3.6	5.			
11.			indergraduate, master		
	11.1.		xaminations for award	*	
	11.2. 11.3.	M. Sc.	al dissertations	7	
12.				ected results achieved in the last four/five years	
12.	roi uie	memors	or doctoral dieses, self	ceed results achieved in the last four/five years	

No.	Authors	Title	Publisher/y
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 Assoc of Civil Engine 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: <a href="https://doi.org/10.14256/JCE.3328.2021">https://doi.org/10.14256/JCE.3328.2021</a>	Croatian Assoc of Civil Engine 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 AdJournals, 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.2021.1	Croatian Assoc of Civil Engine 2021
5.	Violeta Mircevska, Miroslav Nastev, Viktor Hristovski, Ivana Bulajic	Eigenvalue solution for arch dams: ADAD- IZHS Software, Gradevinar 70 (2018) 10, 881-890, DOI: https://doi.org/10.14256/JCE.1662.2016.	Croatian Assoc of Civil Engine 2018

	6.	Viktor Hristovski, Violeta Mircevska, Bruno Dujic and Mihail Garevski	Comparative dynamic investigation of laminated wooden panel systems: She table tests and analysis, Advances in Structural Engineering, Volume 21 I July 2018, 1421 – 1436, https://doi.org/10.1177/1369433217	saking- Ssue 10,	Sage Journals	s, 2018
12.2.			ntific-research papers published in inte	rnational s	 scientific journa	al
	No.	Authors	en field for the last five years  Title		Publisher	/year
	1.	Viktor Hristovski, Violeta Mircevska, Bruno Dujic and Mihail Garevski	Comparative dynamic investigation of laminated wooden panel systems: Sh table tests and analysis, Advances in Structural Engineering, Volume 21 I July 2018, 1421 – 1436, https://doi.org/10.1177/13694332177	ssue 10,	2018	
	2.	Nikola Naumovski, Viktor Hristovski, Lidija Krstevska	Influence of railway induced vibration structures and humans in urban area Gradevinar 74 (2022) 9, 769-778, Dhttps://doi.org/10.14256/JCE.3398.2	ıs, OI:	Croatian Asso of Civil Engir 2022	
	3.	Hrvoje Smoljanović, Ivan Balić, Ante Munjiza, Viktor Hristovski	Rotation-Free Based Numerical Mod Nonlinear Analysis of Thin Shells, Ba 2021, 11(12), 657; https://doi.org/10.3390/buildings111	uildings	MDPI Open A Journals, 202	
12.3.			hree participations in international meet		•	
	No.	Authors	Title of paper	Internation meeting/o	onal 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/1CroCE E.2021.19	Croatian on Earthd Engineer 1CroCEI Croatia - to 24nd,	EZagreb, March 22nd 2021, Edited asic, S. and	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	0	2021

	No. 3			g within the curriculum doctoral dissertations	s of the first, t	he seco	nd and the third cycle			
1.	Name a	ınd sur	name	Prof. Dr Vlado Micov						
2.	Date of	birth		28.09.1958						
3.	Educati	ion lev	el	Doctor of technical sciences						
4.	Title of	scienti	fic degree achieved	Full professor in UKIM	I-IZIIS, Skopje	<b>;</b>				
5.			nen the lecturer	Education Year			Institution			
			his/her education and entific degree	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, d	discipline and sub-discipline of Field Discipline			Sub-discipline					
		Sc. degree		Techical Sciences	Civil Engineering		Earthquake Engineering			
7.	Field, d	isciplin	ne and sub-discipline of	Field	Discipline		Sub-discipline			
	Ph. D. degree			Techical Sciences	Civil Engineering		Earthquake Engineering			
8.			is in a working e/she should state	Institution		Title in which he/she has been elected and in which field				
		affiliati	on, the awarded title	UKIM-IZIIS, Skopje Full P		Full Pro	rofessor			
9.	List of	subject	s that the lecturer teache	s separately in the first, th	ne second and t	he third	cycle of studies			
	9.1.			r teaches at the first cycle of studies						
		No.	Title of the subject		Curriculum /i	nstitutio	on			
		1.								
		2.								
	9.2.	List of	_	r teaches at the second cy						
		No.	Title of the subject		Curriculum /i					
		1.	Bridges, transport and	d infrastructure systems	Earthquake e Skopje	ngineering / UKIM-IZIIS,				
		2.	Steel structures		Earthquake engin Skopje		ring / UKIM-IZIIS,			
		3.	Design of engineering	g steel structures Earthquake e. Skopje		quake engineering / UKIM-IZIIS, e				
	9.3.	List of	subjects that the lecture	r teaches at the third cycle	e of studies					
		No.	Title of the subject	·		lum /institution				

1. Gjorgjiev, I., Petreski, B., Micov, V. Connection for Prefabricated RC Structure, ASES, 6-8  2018, Zlat  2. I.Gjorgjiev, B. Petreski, V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge  Scymposium  Experimental Study of Beam-To-Column  15th Cong  ASES, 6-8  2018, Zlat  20-22 Sep  Foundation Connection for Prefabricated RC  2018, Var  2019, Var  2019, Var  2019, Var  2018, Var  2018, Var  2018, Var  2018, V	-IZIIS, -IZIIS, her/year
engineering structures  4. Diagnostics and State Monitoring of Existing Skopje  10. Selected results achieved in the last five years  10.1. Relevant published scientific papers (up to five)  No. Authors Title Publis  1. Gjorgjiev, I., Petreski, B., Micov, V. Connection for Prefabricated RC Structure, ASES, 6-8  2. LGjorgjiev, B. Petreski, V. Micov Foundation Connection for Prefabricated RC 2018, Van Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering Scientific Conference on Civil Engineering Copenhag Hirlstovski, V., Micov, V., Micajkov, V., Macedonia Using Improved Bridge Symposius	ner/year
Structures   Skopje	ner/year ress of
10.1. Relevant published scientific papers (up to five)  No. Authors  Title  Publis  1. Gjorgjiev, I., Petreski, B., Micov, V.  Connection for Prefabricated RC Structure, ASES, 6-8  2018, Zlat  2. I.Gjorgjiev, B. Petreski, V. Micov  Foundation Connection for Prefabricated RC Structure, ASES, 6-8  1. Gjorgjiev, B. Petreski, V. Micov  Foundation Connection for Prefabricated RC Structure, ASES, 6-8  2018, Zlat  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V., Micov, V., Micov, V., Micov, V., Micoy, V., Micoy, V., Micoy, V., Micajkov, S., Macedonia Using Improved Bridge  No. Authors  Publis  ASES, 6-8  2018, Zlat  2018, Var  Hall", Proceedings X Jubilee International ISSN: 260  Scientific Conference on Civil Engineering  Conference Engineerin Copenhag  Copenhag  Scientific Soil Structure Interaction", Copenhag  No. Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge  Symposium  Symposium  Symposium  Symposium  Publis  ASES, 6-8  2018, Var  20-22 Sep  Scientific Conference on Civil Engineering  Copenhag  Conference Engineering  Copenhag  Symposium	ress of
No. Authors  Title  Publis  1. Gjorgjiev, I., Petreski, B., Micov, V.  Connection for Prefabricated RC Structure, ASES, 6-8  2018, Zlat  2. I.Gjorgjiev, B. Petreski, V. Micov  B. Petreski, V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Wicov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S.,  Macedonia Using Improved Bridge  Symposiu  15th Cong  20-22 Sep  20-22 Sep  Foundation Connection for Prefabricated RC  2018, Var  2018, Var  20-22 Sep  3. Vitanova, M., Seponse of Viscous Dampers on Seismic Engineering  Conference on Civil Engineering  Copenhag  Copenhag  Copenhag  Copenhag  Copenhag  Symposiu	ress of
No. Authors  Title  Publis  1. Gjorgjiev, I., Petreski, B., Micov, V.  Connection for Prefabricated RC Structure, ASES, 6-8  2018, Zlat  2. I.Gjorgjiev, B. Petreski, V. Micov  B. Petreski, V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Wicov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S.,  Macedonia Using Improved Bridge  Symposiu  15th Cong  20-22 Sep  20-22 Sep  Foundation Connection for Prefabricated RC  2018, Var  2018, Var  20-22 Sep  3. Vitanova, M., Seponse of Viscous Dampers on Seismic Engineering  Conference on Civil Engineering  Copenhag  Copenhag  Copenhag  Copenhag  Copenhag  Symposiu	ress of
Petreski, B., Micov, V.  Connection for Prefabricated RC Structure,  2. I.Gjorgjiev, B. Petreski, V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Vitanova, M., Sheshov, V., Micajkov, S.,  Macedonia Using Improved Bridge  Symposiu  ASES, 6-8  2018, Zlat  20-22 Sep  Boydanoric Conference on Civil Engineering  Conference on Civil Engineering  Conference Engineering  18th International Scientific Conference on Civil Engineering  Conference Engineerin Copenhag  Symposium  ASES, 6-8  2018, Zlat  20-22 Sep  Boydanoric Conference on Civil Engineering  Conference Engineerin Copenhag  Symposium  Asectonia Using Improved Bridge Symposium	
2. I.Gjorgjiev, B. Petreski, V. Micov  Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S.,  Solution Connection for Prefabricated RC 2018, Van 2018,	September
2. I.Gjorgjiev, B. Petreski, V. Micov Foundation Connection for Prefabricated RC Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge Substitute Testing of Columns-To- 20-22 Sep 2018, Van	-
B. Petreski, V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Vitanova, M., Sheshov, V., Micajkov, S.,  Macedonia Using Improved Bridge Sunday Conference  Conference Engineering  Copenhag  Classification of Existing Bridges in R. N.  18th International ISSN: 260  Conference Description of Existing Bridges in R. N.  Response of Isolated Bridges Including Soil Structure Interaction",  Classification of Existing Bridges in R. N.  Macedonia Using Improved Bridge Symposium	bor, Serbia.
V. Micov  Foundation Connection for Prefabricated RC  Hall", Proceedings X Jubilee International  Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge  Symposiu  1ISSN: 260  Conference Conference Engineerin Copenhag  Classification of Existing Bridges in R. N.  18th International ISSN: 260  Conference Engineerin Copenhag  Classification of Existing Bridges in R. N.  Nacedonia Using Improved Bridge Symposium	ember,
Scientific Conference on Civil Engineering  3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge Scientific Conference on Civil Engineering Conference on Civil Engineering Response of Isolated Bridges Engineering Copenhag Copenhag Engineering Copenhag Copenhag Symposium Macedonia Using Improved Bridge Symposium	a, Bulgaria,
3. Vitanova, M., Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge  "Influence of Viscous Dampers on Seismic Conference Response of Isolated Bridges Engineerin Copenhag  Copenhag  Copenhag  Classification of Existing Bridges in R. N.  Macedonia Using Improved Bridge  Symposium	3-4255
Bogdanovic, A., Edip, K., Hristovski, V., Micov, V.,  4. Vitanova, M., Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge Sugineering Engineering Copenhage Copenhage Symposium (Copenhage Sym	
Sheshov, V., Micajkov, S., Macedonia Using Improved Bridge Symposium	g
Micajkov, S., Macedonia Using Improved Bridge Symposiu	ational
Abarca, A.,	n of MASE,
Monteiro, R., Salic, R., Edip, K., Micov, Inventory Database, 2-5 Octob	r 2019,
V., Petreski, B Ohrid, N.	
5. Vitanova, M., Gjorgjiev, I., Hristovski, V., Micov, V.,  Wewly Designed RC Bridges", Assessment and Conference Newly Designed RC Bridges", Assessment	Macedonia.
March 06-	al e on Bridge Design and
Barcelona	al e on Bridge Design and
10.2. Participation in scientific-research and international projects (up to five)	al e on Bridge Design and t 07, 2023 in
No. Authors Title Publis	al e on Bridge Design and t 07, 2023 in

10.3.	Publish No.	Eucentre Foundation – Italy, Yaron Offir Engineers LTD - Israel, & UKIM – IZIIS – R.Macedinia  ed books in the last fi Authors	Infrastructure under Natural and Human- induced Hazards (INFRA-NAT)"	INFRA-NAT H2020- EUCENTRE_INFRA_ NAT 01.01.2018- 31.12.2019 Publisher/year
10.4.		ed professional paper	s for the last five years (up to five)	
10.4.	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 Center Boris Trajk The secondary tran additionally loaded system, lighting, L various "Events"	ovski" complex in nsverse steel grids d with equipment (	Skopje; are sound	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.	Mentor	_	ındergraduate, master		es				
	11.1.		xaminations for award	l of diploma	/				
	11.2.	M. Sc.			/				
<u></u>	11.3.		al dissertations		/				
12.			of doctoral theses, sel			•			
	12.1.		ce on scientific-resear ic publications in the				urnals or intern	ational	
		No.	Authors	Title			Publisher/	year	
		1.	-	-			-		
	12.2.	Eviden	ce on at least two scien	ntific-research paper	s published in inter	rnational s	cientific journa	ıl	
			pact factor in the give	n field for the last fi	ve years				
		No.	Authors	Title			Publisher/	year	
		1.	-	-			-		
	12.3.		Evidence on at least th	rree participations in	international meet	ings for th	e last four years	S	
		No.	Authors	Title of paper		Internation meeting/o	onal conference	Year	
		1.	Gjorgjiev, I., Petreski, B., Micov, V.	Experimental Stud Column Connection Prefabricated RC S	on for	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 E R. N. Macedonia U Bridge Inventory I	Jsing Improved			2019	

Sesov, V., seismic response of multi span Conference Hristovski, V RC girder bridges Earthquak	ce on	
Heistovalsi V DC sinden bridges Earth aval		
Hristovski, V., RC girder bridges Earthquak	ke	
Micov, V., Edip,K. Engineering	ing, Sendai,	
Japan		

	No. 4			ize the lecturing process very of studies and mentors o		udy programme of the first, the udies			
1.	Name and	l surn	ame	ZORAN RAKICEVIC					
2.	Date of bi	irth		09.11.1966					
3.	Education	level		Doctoral Studies					
4.	Title of sc	ientifi	c degree achieved	Doctor of Technical Science					
5.			en the lecturer	Education	Year	Institution			
	accomplished his/her education and acquired a scientific degree			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, disc	ipline	and sub-discipline of	Field	Discipline	Sub-discipline			
	M.Sc. deg	-	•	Technical Science	Civil Engineerir	Earthquake Engineering			
7.			and sub-discipline of		Discipline	•			
	Ph. D. deg	gree		Technical Science	Civil Engineerir	Earthquake Engineering			
8.	relationsh	ip, he/	in a working she should state	Institution  UKIM-IZIIS		Title in which he/she has been elected and in which field			
	and in whi	ich fie				Full Professor / earthquake engineering			
9.				s separately in the first, the		the third cycle of studies			
			J	r teaches at the first cycle of					
	N	0.	Title of the subject		Curriculum /	/institution			
	1.								
	2.								
	9.2. Li	ist of s	subjects that the lecture	r teaches at the second cyc	le of studies				
	N	0.	Title of the subject		Curriculum /	/institution			

		1.	Fundamentals of Experimental Mechan Monitoring and Testing of Structures	ring / UKIM-IZIIS					
	9.3.	List of	List of subjects that the lecturer teaches at the third cycle of studies						
		No.	Title of the subject		Curriculum /institutio	on			
		1.	Experimental mechanics		Earthquake Engineer	ring / IZIIS			
		2.	Structural Control		Earthquake Engineer	ring / IZIIS			
10.	Select	ed resul	ts achieved in the last five years		1				
	10.1.		ant published scientific papers (up to five	)					
		No	Authors	Title	2	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		ybrid seismic ation system toward e resilient ctures: Shaking e experiment and ility analysis	Journal of Building Engineering/2021			
		3.	Aleksandra Bogdanovic, Zoran Rakicevic, Ehsan Noroozinejad Farsangi	Shall num of a devi	ke table tests and nerical investigation resilient damping ice for seismic onse control of ding structures	Structural Control and Health Monitoring/2019			
		4.	Aleksandra Bogdanovic, Zoran Rakicevic	Opti plac com	imal damper ement using abined fitness etion	Frontiers in Built Environment/2019			
		5.	Ehsan Noroozinejad Farsangi, Aleksandra Bogdanovic, Zoran Rakicevic, Angela Poposka, Marta Stojmanovska	testi inve	bient vibration ng and field estigations of two prical buildings in ope	Tech Science Press/Structural Durability & Health Monitoring/2020			
	10.2.	Partic	ipation in scientific-research and internat	ional p	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	Rese	ES: Engineering earch Infrastructures European Synergies	HORIZON-INFRA- 2021-SERV-01- 07/2022-2026			

2.	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 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
3.	Italy  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)	for Europa	Advanced
	for Europe	
Joint Research Centre –		Communities'/
European Commission (JRC)		2017-2020
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		

		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.		books in the last five years (up to five		
	No	Authors	Title	Publisher/year
	1.	<u> </u>	-	-
10.4.		professional papers for the last five y		T =
	No	Authors	Title	Publisher/year
	2.	Александра Богановиќ, Лидија Крстевска, Игор Марковски, Никола Наумовски, Филип Манојловски, Ангела Поповска, Дејан Филиповски, Антонио Шокларовски, Мирослав Стаменковиќ, Марија Витанова, Јулијана Бојаџиева, Кемал Едип, Тони Китановски, Дејан Ивановски, Влатко Шешов, Зоран Ракиќевиќ Александра Богановиќ, Лидија Крстевска, Игор Марковски, Никола Наумовски, Филип Манојловски, Ангела Поповска, Дејан Филиповски, Антонио Шокларовски, Мирослав Стаменковиќ, Марија Витанова, Јулијана Бојаџиева, Кемал Едип, Тони Китановски, Дејан Ивановски, Влатко Шешов, Зоран	Испитување на дозволени оптоварувања и други важни карактеристики на челичен мост кај село Криволак  Испитување на дозволени оптоварувања и други важни карактеристики на бетонски мост кај село Криволак	UKIM-IZIIS /2022
	3.	Раки́кеви́к  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

				nanar	
		5.	Z. Rakicevic, A. Bogdanovic, I. Markovski, D. Filipovski, N. Naumovski	Seismic Test – Qualification Report for Combined Instrument Transformer Type	UKIM-IZIIS /2018
1.1	Monte	1.'	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VAU-245	
11.			ergraduate, master and doctoral studio	es L	
	11.1.		ninations for award of diploma	/	
	11.2. 11.3.	M. Sc. thes		2	
12.			doctoral theses, selected results achie	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nra
12.	12.1.		on scientific-research papers publisher		
	12.1.		al scientific publications in the given		
		No	Authors	Title	Publisher/year
		1.	A.Bogdanovic, Z.Rakicevic,	3D Seismic network in	3 <sup>rd</sup> European
			J.Bojadjieva, L.Krstevska, A.	urban environment-case	conference on
			Poposka, F. Manojlovski, A.	study, Ohrid, N.	earthquake
			Shoklarovski, I. Markovski,	Macedonia	engineering &
			D.Filipovski,		seismology
			N. Naumovski		Bucharest, Romania, 2022/3ECEES/2022
		2.	Zoran Rakicevic, Aleksandra	Design procedure of a	3 <sup>rd</sup> European
		2.	Bogdanovic, Dimitar Jurukovski,	telecommunication	conference on
			Predrag Gavrilovic	tower in Skopje, N.	earthquake
				Macedonia under	engineering &
				dynamic loads	seismology
					Bucharest, Romania,
					2022/3ECEES/2022
		3.	Theodoros Rousakis, Arkadiusz	Quick Reparation of	International
			Kwiecien, Alberto Viskovic, Alper Ilki, Petra Tiller, Bahman	Infills in RC Frames After Seismic	Conference on Fibre- Reinforced Polymer
			Ghiassi, Andrea Benedetti,	Damages–Experimental	(FRP) Composites in
			Matija Gams, Zoran Rakicevic,	Tests on Shaking Table	Civil
			Omer Faruk Halici, Bogusław		Engineering/2021
			Zając, Łukasz Hojdys, Piotr		
			Krajewski, Fabio Rizzo, Camilla		
			Colla, Elena Gabrielli, Anastasios		
			Sapalidis, Efthimia Papadouli,		
			Vachan Vanian, Aleksandra		
		4.	Bogdanovic Jamie Goggins, Yadong Jiang,	Shake Table Testing of	Eurosteel, Sheffield,
		4.	Brian M Broderick, Suhaib	Self-Centring	UK/2021
			Salawdeh, Gerard J O'Reilly,	Concentrically Braced	010/2021
			Ahmed Y Elghazouli, Hatim	Frames	
			Alwahsh, Aleksandra		
			Bogdanovic, Zoran Rakicevic,		
			Igor Gjorgjiev, Angela Poposka,		
		_	Borjan Petreski, Igor Markovski		1 CD C CD C
		5.	Predrag Gavrilovic, Dimitar	Structural design for	1CROCEE-1st
			Jurukovski, Zoran Rakicevic,	seismic action or wind	Croatian Conference
			Aleksandra Bogdanovic	action, or both. Case studies	on Earthquake Engineering, /2021
		6	Arkadiusz Kwiecień, Zoran	PUFJ and FRPU	1CROCEE-1st
			Rakicevic, Aleksandra	earthquake protection of	Croatian Conference
			Bogdanovic, Filip Manojlovski,	infills tested	on Earthquake

		Angela Poposka, Anton	io	in resonance	e	Engineering,	/2021
		Shoklarovski, Theodoro					,,
		Rousakis, Alper Ilki, Ma	atja				
		Gams, Alberto Viskovic	2				
12.2.		on at least two scientific-re t factor in the given field			l in internation	al scientific jo	urnal
	No	Authors		Title		Publisher/yea	ar
	1.	Zoran Rakicevic, Aleks	andra	A hybrid se	eismic	Elsevier, Jou	
		Bogdanovic, Ehsan Nor	oozinejad	isolation sy	stem toward	Building	
		Farsangi, Abbas Sivand	i-Pour	more resilie		Engineering/	/2021
				structures:	-		
				table exper fragility an			
	2.	Theodoros Rousakis, Al	lper Ilki,	Deformable		Polymers,	
		Arkadiusz Kwiecien, Al	-	polyuretha	ne joints and	MPDI/2020	
		Viskovic, Matija Gams,			for resilient		
		Triller, Bahman Ghiassi			formance of		
		Benedetti, Zoran Rakice		reinforced			
		Camilla Colla, Omer Fa Halici, Bogusław Zając,		brick infills	n orthoblock		
		Hojdys, Piotr Krajewski		OHER HITHIS	•		
		Rizzo, Vachan Vanian, Anastasios Sapalidis, Efthimia Papadouli, Aleksandra					
		Bogdanovic		A 11			
	3.	Ehsan Noroozinejad Farsangi,		Ambient vibration		Tech Science	
		Aleksandra Bogdanovic		testings and field investigations of two historical buildings in Europe Shake table tests and numerical investigation		Press/Structural Durability & Health Monitoring/2020	
		Rakicevic, Angela Popo Marta Stojmanovska	oska,				
		Warta Stojillaliovska					
	4.	Aleksandra Bogdanovic	. Zoran			Willey/Struc	tural
		Rakicevic, Ehsan Noroc				Control and	
		Farsangi	·	of a resilier		Monitoring/2	2019
				device for			
				response co			
12.2	Estate and		:-	building str		-+ 6	
12.3.	No.	n at least three participati Authors	Tutle	панопат тее	International	st four years	Year
	110.	7 MILLIOIS	Tunc		meeting/conf	erence	1 Cai
	1.	Zoran Rakicevic,	Design pr	ocedure of	Third Europe		2022
		Aleksandra		munication	Conference o		
		Bogdanovic, Dimitar	tower in S	skopje, N.	Earthquake E	ngineering	
		Jurukovski, Predrag	Macedoni		and Seismolo		
	_	Gavrilovic	dynamic l		Bucharest, Ro		
	2.	A. Bogdanovic, Z.		ic network	7th European		2022
		Rakicevic, J. Bojadzieva, V.	in urban environm	ant	on Structural		
		Sheshov, K. Edip	environini	ent	Warsaw, Pola	illa	
		A.Poposka, F.					
		Manojlovski, A.					
		Shoklarovski, I.					
		Markovski, D.					
		Filipovskiand N.					
		Naumovski	<b>.</b>		484 *** 4:-	x 0	2021
	3.	Jamie Goggins,	Experime	ntal	17th World C	onterence	2021

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

	No. 5					ers teaching with			ums of th	ne first, the second and the third cycle of	
1.	Name	and			u me	Roberta Apost					
2.	Date o			- IIIIII		10.11.1967	O LO L				
3.	Educa			el		Doctor of science	ce				
4.				fic degre	20	Doctor of techn		science			
	achiev		CIICI	ne degr		Doctor of reclinical science					
5.	Where		l wl	nen		Education	Year			Institution	
	the lec	ture	r		ŀ	Graduated civil		1991		Faculty of Civil Engineering, UKIM	
	accom	accomplished				engineer				, , ,	
	his/her education			ion	ľ	Master of Scien	ice	1995		UKIM-IZIIS	
	and ac	quir	ed a	a	ŀ	Doctor of		2003		UKIM-IZIIS	
	scienti	ific c	legi	ree		technical scienc	ee	2003		CHAIN EAS	
6.	Field,	disci	iplir	ne and		Field		Discipline	;	Sub-discipline	
	sub-dis	scipl	line	of		Technical Scien	ice	Civil Engi	ineering	Earthquake Engineering	
	M.Sc. Degree						J				
7.	Field,	disci	iplir	ne and		Field		Discipline		Sub-discipline	
	sub-di				ŀ	Technical Scien	ice	Civil Engi		Earthquake Engineering	
	Ph. D.	deg	ree							Zananquano Zaganovang	
8.	If the l	lectu	rer	is in a		Institution		Title in		which he/she has been elected and in	
	workir	ng re	latio	onship,					which fi	ield	
	he/she	sho	uld	state		UKIM-IZIIS		Professo	or		
	his/her	affi	liati	ion, the							
	awarde	ed tit	tle a	and in							
	which	field	i								
9.	List of	sub	jects	s that the	e lect	urer teaches separ	ately	y in the first,	the secon	nd and the third cycle of studies	
	9.1.			subjects	s that	the lecturer teach	es at	the first cyc	ele of stud	lies	
		No	).	Title o	of the	subject	C	urriculum /i	nstitution		
		1.		n/a			n/				
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		1.		Reinfo	orced	concrete	E	arthquake E	Engineerii	ng/IZIIS	
				structu							
	9.3.					the lecturer teach					
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		1.				seismic resistant	E	arthquake E	Engineerii	ng/IZIIS	
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·	10.1			ant publ		d scientific papers				Diri /	
	. No. A				Aut	hors	Title	2		Publisher/year	

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

	4.	G. Necevska - Cvetanovska , <b>R. Apostolska</b> , J. Bojadjiev , A. Zurovski, V. Sigmund, I. Guljas, D. Varevac	Method for seismic upgrading of masonry infills in RC buildings	Proc. of 16 ECEE	5, 2018	
	5.	Pira V., <b>Apostolska R.</b>	Innovative solutions for dry moment resisting beam-column dowel connections in precast industrial buildings	Proc. of 16 ECEE	2, 2018	
12.2		ce on at least two scientific-re		international scient	rific journal with	
		et factor in the given field for		D 1.1'.1/		
	No. 1.	Authors Sheshov, V.,	Title Reconnaissance	Publisher/year Springer, Bulletin	of Couth avoles	
		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.	analysis on buildings damaged during Durres earthquake Mw6.4, 26 November 2019, Albania: effects to non-structural elements	Engineering, Vol 817 (2022)	ume 20, pages795–	
	2.	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 Civik Engineering (2020). doi/full/10.1080/19648189.2020.1798 816.		
	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 Engineering, Apri 10.1007/s10518-0	il 2018, DOI	
12.3	Evide	nce on at least three participa		ngs 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			g within the curriculun doctoral dissertations	ns of the first,	the seco	nd and the third cycle		
1.	Name	and sur	name	Prof. Dr Violeta Mirce	vska				
2.	Date o	f birth		30.11.1957					
3.	Educa	tion leve	el	Doctor of technical sciences					
4.	Title o	f scienti	fic degree achieved	Full professor in UKIM	A-IZIIS, Skopj	e			
5.	I		nen the lecturer	Education	Year		Institution		
			his/her education and entific degree	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,	disciplin	ne and sub-discipline of	Field	Discipline		Sub-discipline		
	M.Sc.		•	Techical Sciences	Civil Engi	neering	Earthquake Engineering		
7.	Field,	disciplin	ne and sub-discipline of	Field	Discipline		Sub-discipline		
	Ph. D.	degree	·	Techical Sciences	Civil Engineering		Earthquake Engineering		
8.		e lecturer is in a working ionship, he/she should state		Institution			which he/she has been and in which field		
	his/her	-	on, the awarded title	UKIM-IZIIS, Skopje Full Pro					
9.	List of	subject	s that the lecturer teache	es separately in the first, the	he second and	the third	cycle of studies		
	9.1.	List of	subjects that the lecture	er teaches at the first cycle	e of studies				
		No.	Title of the subject	,	Curriculum /	institutio	on		
		1.							
		2.	1		1				
	9.2.		subjects that the lecture	er teaches at the second cy	vcle of studies				
	7.4.	No.	Title of the subject	2 teaches at the second cy	Curriculum /	institutio	on		
		1.	Seismic design of dar	ms					
		2.	Finite element analys	s Earthquake engineer Skopje		ring / UKIM-IZIIS,			
	1	1	i		I				
	9.3.	Liet of	cubicate that the lecture	er teaches at the third cycl	a of studios				

		1.	Seismic design of dar	Earthquake engineering / UKI Skopje  Earthquake engineering / UKI Skopje		ing / UKIM-IZIIS,	
		2.	Rock mechanics			ring / UKIM-IZIIS,	
		3.	Advanced analysis of	f structures and continua	Earthquake enginee Skopje	ring / UKIM-IZIIS,	
		4.	Nonlinear finite element analysis		Earthquake enginee Skopje	ring / UKIM-IZIIS,	
10.	Selecte	d result	s achieved in the last f	ive years		'	
	10.1.	Releva	nt published scientific	papers (up to five)			
		No.	Authors	Title		Publisher/year	
		1.	Mircevska, V., Nastev, M., Nanevska, A., Jekic, G	Stability of Tailings Dan Evaluation of Eigen valu		Symposium on Landslides in the Adriatic-Balkan Region - ReSyLAB & 9th scientific and expert conference GEO-EXPO, 23-25	
		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,	
		Nastev, M.,		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 of tailings dams,	ne seismic stability	European Conference On Earthquake Engineering & Seismology, pg. 154- 163, 04-10 September 2022, Bucharest, Romania.	
		5.	Violeta Mircevska, Miroslav Nastev, Ana Nanevska	SEISMIC SLOPE STABI DAM: DISCREPANCY I IMPROVED FE-NEWM AND MOHR COULOMI MODEL	BETWEEN THE ARK METHOD	ASSOCIATION OF CIVIL ENGINEERS OF SERBIA, 2021	

	10.2. Participation in scientific-research and international projects (up to five)								
		No.	Authors	Title	1 3 1 /	Publisher/year			
		1.	-	-		-			
	10.3.	Publish	lned books in the last fi	ve years (up to five	)				
	10.5.	No.	Authors	Title	/	Publisher/year			
		1.0.				1 dononon y cui			
		1.	Continuous work on	ADAD-IZIIS		Section 300-			
			software for the			Engineering			
			analysis of all types			structures and			
			of dams (adequate			software – IZIIS			
			to a written book on						
			dam analysis						
	10.4.	Publish	 ned professional paper	s for the last five ve					
	10.4.	No.	Authors	Title	for the last five years (up to five)				
		_	-	_		Publisher/year			
11.	Montor	chin et i	undergraduate, master	and doctoral studie	AG				
11.	11.1.		xaminations for award						
	11.1.	M. Sc.							
	11.2.	1	al dissertations		3				
12.			s of doctoral theses, sele						
12.	12.1.					urnals or international			
	12.11	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, <b>Mircevska Violeta</b> , Nastev Miroslav		Discrete Finite Element Model for Safety Evaluation of Arch-dams				
		2.	Горан Јакимовски, Виолета Мирчевска		ФИНИРАЊЕ НА ЕРИОДИ И ФОРМИ НА ОСПРЕГНАТ СИСТЕМ	and Fluids 30 June- 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.			ntific-research papers published in international	scientific journal
	_		n field for the last five years	Т
	No.	Authors	Title	Publisher/year
	1.	Viktor Hristovski, <b>Violeta Mircevska</b> , 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 Tailin A Comparative Study between Modi: 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 date	m	Journal of Engineering Modeling DOI: 10.31534/eng 23.1.ri.04a	mod.20
12.3.		Evidence on at least th	nree participations in international meet	ings for th	e last four year	S
	No.	Authors	Title of paper	International meeting/conference  5th International Conference on Multi- scale Computational Methods for Solids and Fluids, Split, Croatia,		Year
	1.	Violeta Mircevska, Miroslav Nastev, Ana Nanevska, Trajce Zafirov	Quantification of Hydrodynamic Effects in Complex Dam-Fluid Domain Using the Hydrodynamic Influence Matrix			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	CIVIL E	ATION OF NGINEERS BIA, 2021	2021
	3.	Наневска Ана., Мирчевска Виолета, Настев Мирослав	Хидраулична нестабилност на јаловишни брани	ДГКМ: Проценк Рехабили конструн	итација на кциии, 02- мври 2019 го д, Р. С.	

	No. 7								
1.	Name a	and sur	urname Vlatko Sheshov						
2.	Date of	birth		July 6, 1969					
3.	Educati		el	High					
4.	Title of	scienti	fic 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	r 1994		Civil Engineering - UKIM		
6.	Field, discipline and sub-discipline of M.Sc. degree			Field	Discipline		Sub-discipline		
0.				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.	relation	ship, he affiliati	is in a working e/she should state on, the awarded title ield	Institution IZIIS - UKIM		Title in which he/she has been elected and in which field Professor, Dynamics of Soils and Foundations.			
9.	List of	subjects	s that the lecturer teache	es separately in the first, the	second and	the third	l cycle of studies		
	9.1.	List of	subjects that the lecture	r teaches at the first cycle of studies					
		No.	Title of the subject		Curriculum /instituti		on		
		1.							
		2.							
	9.2.	List of	of subjects that the lecturer teaches at the second cycle of studies						
		No.	Title of the subject		Curriculum /institution				
		1.	Dynamics of Soils an	nd Foundations	Earthquake Engineering, IZIIS				
		2.	Geotechnical Earthau	technical Earthquake Engineering			Earthquake Engineering, IZIIS		
	9.3.		subjects that the lecture	1 0					
	1	No.	Title of the subject	<u>`</u>	Curriculum /institution				
		1.	Experimental and Nu Earthquake Geotechr	merical Methods in					
		2.	Soil Structure interac		Earthquake Engineering, IZIIS				
		3.	Advanced topics in se	oil dynamics	Earthquake Engineering, IZIIS				

10.	Selecte	d results	s achieved in the last five years		
	10.1.		nt published scientific papers (up t	to five)	
		No.	Authors	Title	Publisher/year
		1.	Bojadjieva, Julijana, <b>Vlatko Sheshov</b> , 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., <b>Sheshov, V</b> ., Wu, W. & Bojadjieva J.	Numerical modelling of saturated boundless media with infinite elements	Springer, Acta Geotechnica/ 2021
		4.	Bojadjieva, J., <b>Sheshov, V.</b> , Edip, K. <i>et al</i> .	Local Site Effects in Definition of Seismic Design Parameters for Historical Monuments	Springer, Soil mechanics and foundation engineering/2020
		5.	Bojadjieva, J., <b>Sheshov, V.</b> , & Bonnard, C.	Hazard and risk assessment of earthquake-induced landslides—case study.	Springer, Landslides/ 2018
	10.2.		pation in scientific-research and inte		
		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	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.	Publish	ned books in the last five years (up t	to five	)		
		No.	Authors	Title		Publisher/year	
		1.					
	10.4.		ned professional papers for the last		ears (up to five)	<b>1</b>	
		No.	Authors	Title		Publisher/year	
		1.	Prof. Dr. Vlatko Sheshov Bogdanovic, A., Edip, K.	struct	rt on state condition of ure – Building 48, Military (linden 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,	Suital Syste imple	bility study: bility of Multi-Layer Wall m (MLWS) mentation in nuclear power facilities	IZIIS 2018-61	
		3.	Prof. Dr. Vlatko Sheshov, Prof. Dr. Roberta Apostolska, Prof. Dr. Veronika Sendova	of the	level seismic screening structures of medical ies in North Macedonia	IZIIS 2021-58	
		4.	Prof. Dr. Vlatko Sheshov Irena Gjorgeska		hysical survey for basic n project A4 Skopje - Blace	IZIIS 2021-49	
		5.	Sheshov V. Edip K. Bojadjieva J. et al.	the fid dynamic perforusing for ne	rt on consulting services in eld of research of the mic properties of soil and rming dynamic analyses a dynamic triaxial system, eds of team members of	IZIIS 2022	
11.	Montor	chin et i	undergraduate, master and doctoral		eientific - researsh project		
11.	11.1.		xaminations for award of diploma	studie	S		
	11.1.	M. Sc.	1	Toni Kitanovski			
	11.3.	Doctor	al dissertations	Toni Kitanovski, Elena Angelova			
12.	For the	mentors	s of doctoral theses, selected results a	chieve	d in the last four/five years		
-	12.1.	Eviden	ice on scientific-research papers public publications in the given field (up	lished	in international scientific jo	urnals or international	
		No.	Authors	Title		Publisher/year	
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S., Shkodrani, N., et al.	borde Europ	nic resilience through cross- er cooperation and bean research networking - IS project	EAEE, Third European Conference on Earthquake Engineering and	
		2.	J. Bojadjieva, <b>V. Sheshov</b> , K. Edip, J. Chaneva, T. Kitanovski and D. Ivanovski.	Simu	lation of monotonic and e triaxial tests on natural	IAEE, 17th World Conference on Earthquake Engineering/2021	

	3.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Radm Shalic, Marta Stojmanovska, Roberta Apostolska, Stavroul Fotopoulou, Dimitris Pitilakis NeritanShkodrani, Markel	la s,	Harmonized approach f mapping the earthquake landslide hazard at the o border region between I Macedonia, Greece and	e-induced cross- North	Symposium	organized ijeka,
	4.	Vlatko Sesov, Roberta Apostolska, Radmila Salic, et		Building resilience soci through cross-border cooperation and Europe research networking - C	an	SMiRT26 Conferenc Berlin, Ge	e, 2022
	5.	Vlatko Sheshov, Roberta Apostolska, Zivko Bozinovsk Marija Vitanova	ĸi,	Post-Earthquake Missic Durres, Albania, From S To Practice		Proceeding Croatian C on Earthqu	Conference take
	6.	Vlatko Sheshov		Experimental investigat performance of pile fou in liquefied ground		SeismiCO 24th — 25 2019   Lor	N 2019, 6th June
12.		nce on at least two scientific-rese			rnational s	scientific journal	
	No.	mpact factor in the given field for Authors	or the	Title		Publisher/year	
	1.	Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M. Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jel G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D., Zurovski, A., Trajcevski, J., Markovski, I.	,	Reconnaissance analysi buildings damaged duri Durres earthquake Mwo November 2019, Alban effects to non-structural elements	ng 5.4, 26 ia:	Springer, l Earthquak Engineerin	
	2.	Bojadjieva, J., <b>Sheshov, V</b> ., Edip, K. et al.		Local Site Effects in De of Seismic Design Para for Historical Monumer	meters	Springer, Soil mechanics and foundation engineering/2020	
		Edip K., <b>Sheshov V.</b> , Wei W Bojadjieva J.	•••	Numerical modelling of saturated boundless med infinite elements			· ·
12.		Evidence on at least three parti			ings for th	e last four y	
	No.	Authors		e of paper	_	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.,	durr	t-earthquake mission in res, albania, from nce to practice	1 <sup>st</sup> Croati Conferen Earthqua Engineer Zagreb, C	ice on ke ing,	2021

2.	Sesov V. et al.	Seismic resilience through cross-border cooperation and European research networking - CRISIS	Third European Conference on Earthquake Engineering and	2022
		project	Seismology,	
3.	Julijana Bojadjieva <b>, Vlatko Sheshov,</b> 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		ata on lecturers teachingle of studies and ment	_			the seco	ond and the third	
1.	Name a	nd sur	name	Dragi Dojc	inovski				
2.	Date of	birth		20.06.1956					
3.	Educati	on lev	el	Ph. D					
4.	Title of	scienti	fic degree achieved	Ph. D.					
5.			nen the lecturer	Education		Year		Institution	
	accomp	lished	his/her	Graduated	civil engineer	1980		Faculty of Civil	
			acquired a		-			Engineering, UKIM-	
	scientifi	ic degr	ree					Skopje	
		_		Master of S	Sciences	1995		UKIM-IZIIS, Skopje	
				Ph. D.		2005		UKIM-IZIIS, Skopje	
6.	Field, di	isciplin	ne and sub-	Field		Discipline		Sub-discipline	
	disciplin	ne of N	I.Sc. degree	Technical S	Sciences	Civil Engi	neering	Earthquake	
								Engineering	
7.	Field, di	isciplin	ne and sub-	Field		Discipline		Sub-discipline	
l			h. D. degree	Technical S	Sciences	Civil Engi	neering	Earthquake	
								Engineering	
8.			is in a working	Institution				which he/she has	
	relations	ship, h	e/she should state				been el	ected and in which	
	his/her a	affiliati	on, the awarded title				field		
	and in w	vhich f	ield		titute of Earth		Professor on subjects		
					g and Enginee	ring		ering Seismology,	
						uake Engineering			
9.		subject	s that the lecturer teache	s separately i	in the first, the	second and t	he third	cycle of	
	studies								
	9.1.	List of	subjects that the lecture	r teaches at tl	ne first cycle of	f studies			
		No.	Title of the subject		(	Curriculum /	institutio	on	
		1.							
		2.							
	9.2.	List of	f subjects that the lecture	er teaches at t	the second cyc	le of studies			
		No.	Title of the subject		(	Curriculum/institution		n	
		1.	Engineering Seismole	logy		Earthquake Engineering, UKIM-IZ		ring, UKIM-IZIIS	
		2.							
	9.3.	List of	f subjects that the lecture	rer teaches at the third cycle of studies					
		No.	Title of the subject		Curriculum/i		nstitutio	stitution	
		1.	Base of Earthquake E	Engineering a	and	Earthquake I	Engineer	ring, UKIM-IZIIS	
			Engineering Seismole						
		2.	Strong Earthquake Se	eismology ar	nd 1	Earthquake l	Enginee	ring, UKIM-IZIIS	
			Microzonation						
10.			ts achieved in the last f						
	10.1.	Relev	ant published scientific	papers (up t					
		No.	Authors		Title			Publisher/year	
		1.	Poposka M., <b>Dojchin</b>		"Comparison		ıl	Proceedings, 3rd	
			Stojmanovska M., Bo	ozhinovski,	Response to 1			European Conference	
			Z., Gjorgjeska I		Earthquake R	Records, Orig	ginal	on Earthquake	
					and Scaled"			Engineering and	
								Seismology,	
								Bucharest.	
		2	a	• • • • • • •	"a · · · · ·			Romania/2022,	
		2.	Stojmanovska M., <b>D</b> o		"Seismic Mo	nitoring of T	ailing	Proceedings, Second	
			<b>D.</b> , Gjorgjiev I., Chap		Dams",			Conference On	
			Gjorgjeska I., Savic S	<b>)</b> .,				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.	Mavrovo earthquake experience and results	Proceedings, 5th Congress on Dams, Struga, R.N.Macedonia/2021					
	4.	I. Gjorgjeska, M. Stojmanovska, <b>D. Dojchinovski</b> , M. Poposka, G. Chapragovski,	Characterization For Strong Motion Stations. A Case Study in North Macedonia	Proceedings, 1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia/ 2021					
	5.	<b>Dojcinovski D.</b> , 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. Partic	ipation in scientific-research and inter	rnational projects (up to five)						
	No.	Authors	Title	Publisher/year					
	1.	<b>Dragi Dojcinovski</b> , 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.	<b>Dragi Dojcinovski</b> , 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. Publis	Published books in the last five years (up to five)							
	No.	Authors	Title	Publisher/year					
	1.								
10	4. Publis	shed 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, <b>D. Dojchinovski</b> , I.Gjorgjeska, M. Poposka	"Definition of design seismic parameters for the Suhorica dam site"	IZIIS/2022					
	2.	<b>D. Dojchinovski,</b> 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						
	3.	I.Gjorgjeska, Sheshov V., <b>D. Dojchinovski</b>	Camp Nothing Hill, Leposaviq - Kosovo Geophysical Study: 2D MASW Survey	IZIIS/2021					
	4.	Sheshov V., <b>D. Dojchinovski</b> , 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, <b>D. Dojchinovski</b> ,	Usability of the "Tisovec" tunnel	IZHS/2018					

			I. Gjorgjeska, A. Zurovski, G. Chapragovski, M. Poposka, E. Delova	with a remai techn	e existing operating mode an assessment of the ning operational life and a ical solution for conversion busy tunnel		
11.	Mentor	ship at u	indergraduate, master and doctoral	l studies			
	11.1. Final examinations for award of diploma				/		
		M. Sc.			/		
	11.3.		al dissertations		3 (on go		
12.		For	r the mentors of doctoral theses, sele	cted re	sults achieved in the last four	/five years	
	12.1.		ce on scientific-research papers pub			urnals or international	
			ic publications in the given field (u	<del> </del>	() for the last five years		
		No.	Authors	Title		Publisher/year	
		1.	Gjorgjeska I., Sheshov V., Stojmanovska M., Bojadjieva J., <b>Dojchinovski D.</b> , Edip K., Poposka M.	seism	-method approach for ic site characterization in Macedonia	EAEE, Third European Conference on Earthquake Engineering and Seismology/ 2022	
		2.	Poposka M., <b>Dojchinovski D.</b> , Stojmanovska M., Gjorgjeska I., Chapragoski G.	Exper Struct	ovo Earthquake, rience and Dynamic tural Response	CroCEE, First Croatian Conference on Earthquake Engineering/2020	
		3.	<b>Dojcinovski D.</b> , Bozinovski, Z., Stojmanovska M., Chapragoski G., Poposka M.,	And I	lysis of Global Damage Functioning Of Highway In quakes Condition"	Disaster Prevention and Mitigation in the "Road & Belt" countries, Dalian University of Technology, China/2019	
		4.	<b>Dojcinovski D.</b> , Stojmanovska M., Cernih D., Dimishkovska B., Gjorgjeska I		Impact of Griva quakes on structures ge"	16ECEE/ 16th European Conference on Earthquake Engineering /2017	
		5.	D. Dojcinovski, M. Stojmanovska, M. Garevski, W. Guoxin, B. Dimiskovska, I. Gjorgjeska, N. Kuljic	seism	town core of Ohrid - ic parameters for repair crengthening of structures"	16WCEE/ 16th World Conference on Earthquake Engineering/2017	
	12.2.		ce on at least two scientific-research				
		No.	Authors	Title	io jouis.	Publisher/year	
		1.	Bojadjieva, J., Sheshov, V., Edip, K. and <b>Dojchinovski D.</b>	"Loca of Sei	al Site Effects in Definition ismic Design Parameters istorical Monuments"	Springer, Soil mechanics and foundation engineering/2020	
		2.	Sinadinovski C., Pekevski L., <b>Dojcinovski D.</b> , Cernih D.,	motic July 2 seque		Journal of Seismology /2018	
	12.5	3.	Sh. Mustafa, <b>D. Dojcinovski</b> , G. Wang, Z. Elezaj	Accel Koso		J. Int. Environnemental Application & Science / 2017	
	12.3.		Evidence on at least three participat		ı		
		No.	Authors Title	e of pa	per Internation	onal Year	

			meeting/conference	
1.	Dojcinovski D., Stojmanovska M., Gjorgjiev I., Poposka M., Chapragoski G., Gjorgjeska I., Milevski S., Koviloski V.		Proceedings, 5th Congress on Dams, Struga, R.N. Macedonia	2021
2.	<b>Dojcinovski D.</b> , 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		ta on lecturers teaching dies and mentors of do	within the curriculums of ctoral dissertations	of the first, the	e second	and the third cycle of	
1.	Name	and sur	name	Igor Gjorgjiev				
2.	Date o	f birth		9.4.1975				
3.	Educat	ion lev	el	VIII				
4.	Title of	scienti	fic degree achieved	Doctor of technical scie	nces			
5.			hen the lecturer	Education	Year		Institution	
			his/her education and entific degree	High education	1999		Faculty of Civil Engineering	
				Magisterium	2004		IZIIS	
				Ph.D	2011		JNU-IZIIS	
6.	Field, o	disciplir	ne and sub-discipline of	Field	Discipline		Sub-discipline	
	M.Sc.	degree		Technical sciences	Civil Engir	neering	Earthquake Engineering	
7.			ne and sub-discipline of	Field	Discipline		Sub-discipline	
	Ph. D.	Ph. D. degree		Technical sciences	Civil Engineering		Earthquake Engineering	
3.	relation	nship, h	is in a working e/she should state	Institution		Title in which he/she has been elected and in which field		
	and in	which f		UKIM-IZIIS Full professor				
9.	List of			es separately in the first, th		he third	cycle of studies	
	9.1.			r teaches at the first cycle				
		No.	Title of the subject		Curriculum /institution			
		1.						
		2.						
	9.2.	List of	f subjects that the lecture	r teaches at the second cyc	cle of studies			
		No.	Title of the subject		Curriculum /institution			
		1.	Introduction to MAT to engineering	LAB and its application	Earthquake Engineering/ UKIM-IZIIS			
		2.	Design of engineerin	g steel structures	Earthquake I	Enginee	ring/ UKIM-IZIIS	
		3.	Steel structures		Earthquake F	Enginee	ring/ UKIM-IZIIS	
		4.	Finite Element Analy	vsis .	Earthquake F	Engineer	ring/ UKIM-IZIIS	
	9.3.			er teaches at the third cycle		00	<i>G</i>	
		No.	Title of the subject	and of the	Curriculum /i	institutio	on	
		1.	Advanced application solving engineering p		Earthquake Engineering, IZIIS			
		2.		f structures and continua	Earthquake I	Ingina	ring IZIIS	
		۷٠	1 Idvanced analysis of	structures and continua	Larinquake I	Jignice		

		3.	Design and analysis of structures with seismic isolation and passive energy dissipation systems		Earthquake Engineering, IZIIS		
		4.	Advanced Analysis of Steel Struc	ctures	Earthquake Engineering, IZIIS		
		5.	Diagnostics and State Monitoring	g of Existing	Earthquake Engineer	ring, IZIIS	
10.			s achieved in the last five years				
	10.1.		nt published scientific papers (up			D 11' 1 /	
		No.	Authors	Title		Publisher/year	
		1.	I. Gjorgjiev	FEM Analy	sis of Fiber	3ECEES/2022	
				Reinforced	Rubber Bearings		
				Under Verti	cal Load		
		2.	B. Petreski, I. Gjorgjiev	Combined Physical and Virtual  Experimental Testing for Self-  Establishing damage alarm thresholds for SHM based on parametric time- history analysis  Analytical model verification for		3ECEES/2022	
			a sign ap si				
		3.	A. Zurovski I. Gjorgjiev			3ECEES/2022	
		4.	B. Petreski I. Gjorgjiev			1CroCEE / 2021	
					erformance-based		
		5.	I.Gjorgjiev	design of M	RF on of dynamic	1CroCEE / 2021	
			G. Jekikj A. Zurovski		f re buildings in	TCIOCEE / 2021	
	10.2.	Particip	pation in scientific-research and inte	ernational pro	jects (up to five)		
		No.	Authors	Title	Publisher/year		
		1.	д-р Горан Јекиќ д-р Игор Ѓорѓиев др.	financed by Cyril and M Method for Experiments Modal Paras Prediction of Building Str Seismic Exc for Damage	ally Defined Sets of meters for the of the Response of ructures under citation and Potential Detection	2020	
		2.	д-р Драги Дојчиновки д-р Игор Ѓорѓиев др.	Scientific R 2016-2017 to of Education Republic of Behavior of	acedonian-Chinese esearch Project for financed by Ministry n and Science of Macedonia, Tall Buildings nic and Wind Force	2017	

			д-р Зоран Раќикевиќ д-р Александра Бограновиќ д-р Игор Ѓорѓиев д-р Горан Јекиќ др.	Engineering Research Infrastructure Alliance for Europe – SERA, H2020 Project, 2020	2020					
	10.3.	Publish	ed 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.	Publish	ed professional papers for the last							
		No.	Authors	Title	Publisher/year					
		1.								
		2.								
		3.								
		4.								
		5.								
11.	Montor	entorship at undergraduate, master and doctoral studies								
11.	11.1.									
	11.1.	M. Sc.		0						
	11.2.			0						
12.	11.3.   Doctoral dissertations   0									
		Eviden	ce on scientific-research papers pu ic publications in the given field (u	urnals or international						
		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		022				
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								
				1						
	No.	Authors			Publis	sher/year				
	1.									
	2.									
12.3		Evidence on at least three participations in international meetings for the last four years								
	No.	Authors	Title of paper	Internation meeting/	onal conference	Year				
	1.	I. Gjorgjiev	FEM Analysis of Fiber Reinforced Rubber Bearings Under Vertical Load	conferen	ce	2022				
	2.	B. Petreski I. Gjorgjiev	Analytical model verification for improved performance-based design		ce	2021				
	3.	I. Gjorgjiev A. Poposka	Wind Action on Structures According Eurocode	conferen	ce	2022				

]	No. 10			lecturers teaching and mentors of co			s of the first, the second and the third cycle of
1.	Name		dares	Kemal Edip	io c to i u	dissortations	
	surna						
2.		of birtl		13.11.1979			
3.		ation le	eve	Ph.D.			
4.	Title			Doctor of tech	nical sc	ience	
		tific de	egree				
	achie				Γ		T
5.	When			Education	Year		Institution
	when			Bachelor	2003		Civil Engineering Dept. Middle East Technical
	lectur		1	diploma			University, Ankara, Turkey
	his/he	ation a		Master of science	2005		Ruhr University Bochum, Germany
	scient	tific de	gree	Ph.D.	2013		Ss Cyril and Methodius University in Skopje,
				_ · · ·			Institute of Earthquake Engineering and
							Engineering Seismology (UKIM-IZIIS)
6.	Field,	, discip	oline	Field	Disci	pline	Sub-discipline Sub-discipline
	and s			Engineering	Civil	Engineering	Earthquake Engineering
		oline of		and		2 2	
	M.Sc	. degre	ee	Technology			
7.	Field,	, discip	oline	Field	Discipline		Sub-discipline Sub-discipline
	and s	ub-		Engineering	gineering Civil Engineering		Earthquake Engineering
		oline of		and		2 2	
	Ph.D.	.degree	9	Technology			
8.	I	lecture		Institution			Title in which he/she has been elected and in
		working					which
		onship e shou		Ss Cyril and Methodius University in Skopje, Institute of Earthquake			Professor,
	ne/sno	e snou	Ia				Earthquake Engineering
	his/he	ar.		Engineering and Engineering Seismology (UKIM-IZIIS)			
		ation, t	ha			Z113)	
		ded titl					
		n which					
	field	ı wine.					
9.		of subie	ects tha	at the lecturer te	aches s	eparately in the fi	rst, the second and the third cycle of studies
	9.1.					aches at the first of	
		No.		tle of the subject		Curriculum /ins	
		1.	-			-	
	9.2.	List	of subj	jects that the lect	turer te	aches at the secon	nd cycle of studies
		No.		tle of the subject		Curriculum /ins	
		1.		otechnical	-		gineering and Engineering Seismology / Ss Cyril
			Ea	rthquake Engine	ering	and Methodius University in Skopje, Institute of Earthquake	
							d Engineering Seismology (UKIM-IZIIS)
		2.		il dynamics and		1 -	gineering and Engineering Seismology / Ss Cyril
			fou	ındations	indations		University in Skopje, Institute of Earthquake
			-				d Engineering Seismology (UKIM-IZIIS)
		3.		oject planning ar	ıd		gineering and Engineering Seismology / Ss Cyril
			ma	nagement			University in Skopje, Institute of Earthquake
	0.2	T					d Engineering Seismology (UKIM-IZIIS)
	9.3.					aches at the third cycle of studies	
	Ì	No.	I I I	tle of the subject Curriculum/i			atuuon

			T						
		1.	Experimental and		gineering and Engineering Seismology / Ss Cyril				
			Numerical Methods in		University in Skopje, Institute of Earthquake				
			Earthquake	Engineering and	d Engineering Seismology (UKIM-IZIIS)				
			Geotechnical						
			Engineering						
		2.	Soil Structure	Earthquake Engineering and Engineering Seismology / Ss Cyril					
			interaction	and Methodius University in Skopje, Institute of Earthquake					
				Engineering and Engineering Seismology (UKIM-IZIIS)					
		3.	Advanced topics in soil	Earthquake Engineering and Engineering Seismology / Ss Cyril					
			dynamics	and Methodius University in Skopje, Institute of Earthquake					
				Engineering and Engineering Seismology (UKIM-IZIIS)					
	Select	elected results achieved in the last five years							
10	10.1		vant published scientific pape						
10	10.1	No	Authors	Title	Publisher/year				
		1.	Vitanova, M.,	Seismic	Bull Earthquake Eng 20, 6527–6554 (2022).				
		1.							
			Bogdanovic, A.,	performance	https://doi.org/10.1007/s10518-022-01453-5				
			Bozinovski, Z., <b>Edip, K.</b> ,	validation for					
			Bojadzieva, J., Delova, E.,	RC building					
			Zafirov, T.	structures					
				damaged by					
				Durres					
				earthquake,					
				Mw6.4, 26					
				November					
				2019, Albania					
		2.	Sheshov, V., Apostolska,	Reconnaissan	Bull Earthquake Eng 20, 795–817 (2022).				
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Butenweg, J. Bojadjieva, model for simulation of model for simulation of multiphase soil  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 and Engineering Current of Republic of N. Macedonia, Crisis Management Centre UPT-FCE - Polytechnic University of Tirana, Faculty of Civil Engineering, and Engineering and Research in Earthquake Engineering and		5.	K. Edip, V. Sesov, C.	Development	Computers and Geotechnics, Volume	
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Faculty of Civil Engineering AUTH – Aristotle University of Thessaloniki, Greece EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy  10.3 Published books in the last five years (up to five)						
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Research in Earthquake Engineering, Pavia, Italy  10.3 Published books in the last five years (up to five)						
Engineering, Pavia, Italy  10.3 Published books in the last five years (up to five)						
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10.4 Published professional papers for the last five years (up to five)	40.					

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	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

	11.1	Final e	examinations for	award of	-		
	11.2	M. Sc.			1. Dejan Ivanov	yski	
	11.3	Doctor	ral dissertations		-		
12	For th	ie mento	ers of doctoral the	eses selecte	ed results achieve	ed in the last four/five years	
12	12.1					international scientific journals or	
•		international scientific publication					
	-	No.	Authors	Title	s in the gryen he	Publisher/year	
		1.	K.Edip,	Assessment of damper		EAEE, Third European Conference on	
			A.Bogdanovi		Soil Structure	Earthquake Engineering and Seismology/2022	
			c,	Interactio	on		
			J.Bojadjieva,	problems			
			V.Sheshov				
		2.	K.Edip,		nite elements	IAEE, 17th World Conference on Earthquake	
			V.Sheshov,	for simula		Engineering/2021	
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		journal No. 1.	with impact face Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova,	Title Numerica saturated media wi elements Reconnai on buildin during Du earthquak	iven field for the all modelling of boundless th infinite ssance analysis ngs damaged arres to Mw6.4, 26 ter 2019,	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact face Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact face Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	iven field for the all modelling of boundless th infinite ssance analysis ngs damaged arres to Mw6.4, 26 ter 2019,	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac  Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact face Authors Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G., Zafirov, T.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac  Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. Sheshov, V., Apostolska, R., Bozinovski, Z., Vitanova, M., Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic, G.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact face Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. 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,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. 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,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. 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.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. 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,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	
		journal No. 1.	with impact fac Authors  Edip K., Sheshov V., Wei W., Bojadjieva J. 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.,	Title Numerica saturated media wi elements Reconnai on buildiduring Duearthquak November Albania:	al modelling of boundless th infinite ssance analysis ngs damaged urres to Mw6.4, 26 er 2019, effects to	last five years.  Publisher/year  Acta Geotech. 16, 2683–2692 (2021).  https://doi.org/10.1007/s11440-020-01139-9  Springer, Bulletin of Earthquake Engineering/	

12.3	Eviden	ce on at least thr	ee participatio	ons in international meetings for the last for	our years
•	No.	Authors	Title of	International meeting/conference	Year
			paper		
	1.	K.Edip,	Assessmen	Third European Conference on	2022
		A.Bogdanovi	t of	Earthquake Engineering and	
		c,	damper	Seismology, Bucharest, Romania	
		J.Bojadjieva,	effects in		
		V.Sheshov	Soil		
			Structure		
			Interaction		
			problems		
	2.	Sheshov, V.,	Post-	1 <sup>st</sup> Croatian Conference on Earthquake	2021
		Apostolska,	earthquake	Engineering, Zagreb, Croatia	
		R.,	mission in		
		Bozinovski,	durres,		
		Z., Vitanova,	albania,		
		M.,	from		
		Stojanoski,	science to		
		B., <b>Edip, K.</b> ,	practice		
		Bogdanovic,			
		A., Salica,			
		R., Jekic, G.,			
		Zafirov, T.,			
		Zlateski, A.,			
		Chapragoski,			
		G., Tomic,			
		D., Zurovski,			
		A.,			
	3.	Trajcevski, J. <b>Edip, K</b> .	Earthquake	5th Regional Symposium on	2022
	٥.	Sheshov, V.	effects in	Landslides in the Adriatic-Balkan	2022
		Bojadjieva, J.	assessment	Region	
		Bogdanovic,	of an earth	'Landslide Modelling and	
		A.	dam slope	Applications'	
		Α.	dam stope	Rijeka (Croatia), 23-26 March 2022	
	l			Rijeka (Cibana), 25-20 Maich 2022	

No. 11		urers teaching within the of doctoral dissertations	curriculums of the first, the second and the third cycle of studies				
1.	Name and St		Aleksandra Bogdanovic				
2.	Date of birth		14.09.1979				
3.	Education le		VIII				
4.		ntific degree achieved	Doctor of technical sciences				
5.		when the lecturer	Education	Year		Institution	
3.		d his/her education and	High education	2003		Ss. Cyril and Methodius	
		cientific degree	High education	2003		University in Skopje,	
	1					Faculty of Architecture	
			Magisterium	2006		Ss. Cyril and Methodius	
			Magisterium	2000		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, discip	line and sub-discipline	Field	Discipline		Sub-discipline	
	of M.Sc. deg	gree	Technical	Civil		Earthquake Engineering	
			sciences	Engineeri	ing		
7.		line and sub-discipline	Field	Discipline		Sub-Discipline	
	of Ph. D. deg	gree	Technical	Civil		Earthquake Engineering	
			sciences	Engineeri			
8.		r is in a working				which he/she has been	
		he/she should state	C. C. I. a. I.M.	Cyril and Methodius Associ		and in which field	
	and in which	ation, the awarded title				ate professor,	
	and in which	i iiciu				Earthquake Engineering	
			Engineering and				
			Engineering Seismology (IZIIS)				
9.	List of subje	cts that the lecturer teach		ne first, the s	econd an	d the third cycle of studies	
	9.1. List	of subjects that the lectur	rer teaches at the f	first cycle of	studies		
	No.	Title of the subject		Curriculum	/institut	ion	
	1.	-		-			
		of subjects that the lecture	rer leads for the se				
	No.	Title of the subject		Curriculum			
	1.	Nonstructural elemen	nts			ering and Engineering	
						vril and Methodius	
				University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS)			
	2.	New technologies for	r design of	Earthquake Engineering and Engineering Seismology / Ss. Cyril and Methodius University in Skopje, Institute of Earthquake		ering and Engineering	
		structures	<i>U</i> -				
				Engineering		gineering Seismology	
				(IZIIS)			
		of subjects that the lecture	rer leads for the th				
	No.	Title of the subject	Curriculum /institution				

		1.	Design and analysis of structure with seismic isolation and passive energy dissipation systems	Seismology / Ss. Cy University in Skopjo	ering and Engineering ril and Methodius e, Institute of Earthquake gineering Seismology			
10.		ed 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.	Partici	pation in scientific-research national	l and international project				
		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

<u> </u>	1	(DDC) ()	<u> </u>	
		(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	IZIIS 2020/2021
10.3.	Publish	led books in the last five years (up t	Polyurethanes	
10.5.	No.	Authors	Title	Publisher / year
	1.	-	-	
10.4.	Publish	ned professional papers in the last fi	ve years (up to five)	
	No.	Authors	Title	Publisher / year
	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. Aleksandra Boganović, Lidija Krstevska, Igor Markovski,	Testing of permissible loads and other important characteristics of a steel bridge near the village of Krivolak.  Testing of permissible loads and other	IZIIS/2022 IZIIS/2022
		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.	important characteristics of a RC bridge near the village of Krivolak.	1711C (2020)
	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.	Mento	rship at	undergraduate, master and doctoral s	studies			
	11.1.		ation works	0			
	11.2.		's theses	1			
	11.3.		ral Dissertations	2			
12.			doctoral theses, selected results in the				
	12.1.		ce of published scientific research p				
		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,	3D Seismic network	3 <sup>rd</sup> European conference		
			J.Bojadjieva, L.Krstevska, A.	in urban	on earthquake engineering		
			Poposka, F. Manojlovski, A. Shoklarovski, I. Markovski,	environment-case study, Ohrid,	& seismology Bucharest, Romania,		
			D.Filipovski,	N.Macedonia	2022/3ECEES/2022		
			N. Naumovski	IV.IVIaccuoma	2022/ SECEES/ 2022		
		2.	Zoram Rakicevic, Aleksandra	Design procedure of	3 <sup>rd</sup> European conference		
			Bogdanovic, Dimitar Jurukovski,	a	on earthquake engineering		
			Petar Gavrilovic	telecommunication	& seismology Bucharest,		
				tower in Skopje, N.	Romania,		
				Macedonia under	2022/3ECEES/2022		
				dynamic loads			
		3.	Marija Vitanova Radmila Salic,	Analytical and	10th International		
			Aleksandra Bogdanovic, Kemal	experimental in-situ	Conference on Structural		
			Edip, Daniel Tomic, Aleksandar Zhurovski	measured fundamental periods	Health Monitoring of Intelligent Infrastructure,		
			Zilulovski	of vibration on	Porto, Portugal/2021		
				different types of	1 orto, 1 ortugal/2021		
				RC building			
				structures			
		4.	Theodoros Rousakis, Arkadiusz	Quick Reparation of	International Conference		
			Kwiecien, Alberto Viskovic, Alper		on Fibre-Reinforced		
			Ilki, Petra Tiller, Bahman Ghiassi,	After Seismic	Polymer (FRP)		
			Andrea Benedetti, Matija Gams,	Damages-	Composites in Civil		
			Zoran Rakicevic, Omer Faruk Halici, Bogusław Zając, Łukasz	Experimental Tests on Shaking Table	Engineering/2021		
			Hojdys, Piotr Krajewski, Fabio	on Shaking Table			
			Rizzo, Camilla Colla, Elena				
			Gabrielli, Anastasios Sapalidis,				
			Efthimia Papadouli, Vachan				
			Vanian, Aleksandra Bogdanovic				
		5.	Jamie Goggins, Yadong Jiang,	Shake Table Testing	Eurosteel, Sheffield,		
			Brian M Broderick, Suhaib	of Self-Centring	UK/2021		
			Salawdeh, Gerard J O'Reilly,	Concentrically			
			Ahmed Y Elghazouli, Hatim	Braced Frames			
			Alwahsh, Aleksandra Bogdanovic, Zoran Rakicevic, Igor Gjorgjiev,				
			Angela Poposka, Borjan Petreski,				
			Igor Markovski				
		6.	Sheshov, V., Apostolska, R.,	Post-earthquake	1CROCEE-1st Croatian		
			Bozinovski, Z., Vitanova, M.,	mission in Durres,	Conference on Earthquake		
			Stojanoski, B., Edip, K.,	Albania, from	Engineering, /2021		
			Bogdanovic, A., Salic, R., Jekic,	science to practice			
			G., Zafirov, T., Zlateski, A.,				
			Chapragoski, G., Tomic, D.,				
	12.2	E.d.	Zurovski, A., Trajcevski, J.	nanara in intamatica 1	oiontifia iovamala viidi		
	12.2.	Eviden	ice of at least two published research	i papers in international s	cientific journais with an		

	impact	factor in the given field in the last fiv	e years	
	No.	Authors	Title	Publisher / year
	1.	M Vitanova, A Bogdanovic, Z	Seismic	Springer, Bulletin of
		Bozinovski, K Edip, J Bojadjieva,	performance	Earthquake
		E Delova, T Zafirov	validation for RC	Engineering/2022
			building structures	
			damaged by Durres	
			earthquake, Mw6. 4,	
			26 November 2019,	
			Albania	
	2.	Sheshov, V., Apostolska, R.,	Reconnaissance	Springer, Bulletin of
		Bozinovski, Z., Vitanova, M.,	analysis on	Earthquake Engineering/
		Stojanoski, B., Edip, K.,	buildings damaged	2021
		Bogdanovic, A., Salic, R., Jekic,	during Durres	
		G., Zafirov, T., Zlateski, A.,	earthquake Mw6.4,	
		Chapragoski, G., Tomic, D.,	26 November 2019,	
		Zurovski, A., Trajcevski, J.,	Albania: effects to	
		Markovski, I.	non-structural	
	3.	Zoran Rakicevic, Aleksandra	elements A hybrid seismic	Elsevier, Journal of
	٥.	Bogdanovic, Ehsan Noroozinejad	isolation system	Building
		Farsangi, Abbas Sivandi-Pour	toward more	Engineering/2021
		Tarsangi, Abbas Sivanui-i oui	resilient structures:	Engineering/2021
			Shaking table	
			experiment and	
			fragility analysis	
	4.	Ersin Aydin, Baki Ozturk,	Influence of soil-	Elsevier/Structures/2020
		Aleksandra Bogdanovic, Ehsan	structure interaction	
		Noroozinejad Farsangi	(SSI) on optimal	
			design of passive	
			damping devices	
	5.	Theodoros Rousakis, Alper Ilki,	Deformable	Polymers, MPDI/2020
		Arkadiusz Kwiecien, Alberto	Polyurethane Joints	
		Viskovic, Matija Gams, Petra	and Fibre Grids for	
		Triller, Bahman Ghiassi, Andrea	Resilient Seismic	
		Benedetti, Zoran Rakicevic,	Performance of	
		Camilla Colla, Omer Faruk Halici,	Reinforced Concrete	
		Bogusław Zając, Łukasz Hojdys,		
		Piotr Krajewski, Fabio Rizzo,		
		Vachan Vanian, Anastasios		
		Sapalidis, Efthimia Papadouli, Aleksandra Bogdanovic		
	6.	Theodoros Rousakis, Alper Ilki,	Deformable	Polymers, MPDI/2020
	J.	Arkadiusz Kwiecien, Alberto	polyurethane joints	1 orymers, 1411 D1/2020
		Viskovic, Matija Gams, Petra	and fibre grids for	
		Triller, Bahman Ghiassi, Andrea	resilient seismic	
		Benedetti, Zoran Rakicevic,	performance of	
		Camilla Colla, Omer Faruk Halici,	reinforced concrete	
		Bogusław Zając, Łukasz Hojdys,	frames with	
		Piotr Krajewski, Fabio Rizzo,	orthoblock brick	
		Vachan Vanian, Anastasios	infills	
		Sapalidis, Efthimia Papadouli,		
		Aleksandra Bogdanovic		
	7.	Ehsan Noroozinejad Farsangi,	Ambient vibration	Tech Science
		Aleksandra Bogdanovic, Zoran	testings and field	Press/Structural

			Rakicevic, Angela Poposk	a, Marta		ations of	Durability &	
			Stojmanovska		two histo		Monitoring/	2020
						s in Europe		
		8.	Aleksandra Bogdanovic, Z			ble tests	_	ctural Control
			Rakicevic, Ehsan Noroozi	nejad			and Health	2010
			Farsangi		investigation of a		Monitoring/	2019
					resilient damping device for seismic			
						e control of		
					-	structures		
		9.	Aydin Demir, Hakan Oztu	ırk.		f viscosity	Journal of S	cience and
			Kemal Edip, Marta Stojma			er on the	Technology	
			A Bogdanovic, E Seismol		numeric			
					simulati	on of		
						ed concrete		
						am behavior		
	12.3.		nce of at least three participa					
		No	Authors	Title of t	he	Internationa		Year
		1.	C V. D D	paper		meeting/con		2022
		1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis,	Seismic resilienc	0	Third Europ Conference		2022
			D., Stefanoski, S.,	through		Earthquake 1		
			Shkodrani, N.,	border	<b>C1</b> O55	and Seismol		
			Bojadjieva, J., Vitanova,	cooperat	ion and	Bucharest, R		
			M., Salic, R.,	Europea		,		
			Bogdanovic, A.,	research				
			Stojmanovska, M.,	networki				
			Zuccolo, E., Bozzoni,	CRISIS	project			
			F., Riga, E., Fotopoulou,					
			S., Petridis, C.,					
		2.	Babaleku, M., Edip, K. A. Bogdanovic, Z.	3D Seisr	nia	7th Europea	n	2022
		2.	Rakicevic, J.	network		Conference		2022
			Bojadzieva, V. Sheshov,	environn		Structural C		
			K. Edip A.Poposka, F.			Warsaw, Pol		
			Manojlovski, A.					
			Shoklarovski, I.					
			Markovski, D.					
			Filipovskiand N.					
		2	Naumovski	F	1	174. XV. 11	C C	2021
		3.	Jamie Goggins, Yadong Jiang, Brian M	Experim Testing of		17th World on Earthqua		2021
			Broderick, Suhaib	Novel Se		Engineering		
			Salawdeh, Gerard John	Centring		Liigineering		
			O'Reilly, Ahmed Y	Braced F				
			Elghazouli, H Alwahsh,	on the Sl				
			A Bogdanovic, Z	Table in				
			Rakicevic, I Gjorgjiev,	DYNLA	B-IZIIS			
			A Poposka, Borjan					
		4	Petreski, I Markovski	TATIO, D		1	CC.	2021
		4.	Aleksandra Bogdanovic,	IZIIS' D	ynamıc	1st Croatian		2021
			Lidija Krstevska, Zoran Rakicevic, Igor	Testing Laborate	rv _	on Earthqua Engineering		
			Markovski, Dejan	Many Ye		Croatia	, Lagico,	
			Filipovski, Nikola	Contribu		Cioana		
		1	- Inportan, i tinoiu	Continu		I		l

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

No. 12			rs teaching within the c	curriculums of the fi	irst, the secon	d and the	third cycle of studies		
			doctoral dissertations.	D 1 '1 C 1' M	1 1				
1.		and Surn	ame	Radmila Salic Ma	akreska				
2. 3.	Date o	tion level		12.06.1977 VIII					
4.			ic degree achieved	Doctor of technical sciences					
5.			en the lecturer	Education Year Institution					
J.			is/her education and	High education	2002				
			ntific degree	Trigii 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 and Engineering		
							Seismology (IZIIS)		
				Ph.D	2015		Ss. Cyril and		
							Methodius		
							University in Skopje, Institute of Earthquake Engineering and		
							Engineering		
							Seismology (IZIIS)		
6.			e and sub-discipline	Field	Discipline		Sub-discipline		
	of M.S	A.Sc. degree		Technical	Civil Engineering		Earthquake		
				sciences			Engineering		
7.	1	-	e and sub-discipline	Field	Discipline		Sub-Discipline		
	of Ph.	D. degre	e	Technical	Civil Engi	neering	Earthquake		
0	TC /1 1		. 1.	sciences		TD: 4	Engineering		
8.			s in a working /she should state	Institution			which he/she has been and in which field		
			on, the awarded title	Ss. Cyril and Met	thodius		te professor,		
	and in	which fie	eld	University in Sko			ake Engineering		
				Institute of Earth					
				Engineering and Engineering					
9.	List of	subjects	that the lecturer teache	Seismology (IZII		d and the	third cycle of studies		
	9.1.		subjects that the lectur				. and e jete of studies		
		No.	Title of the subject		Curriculum		n		
		1.	-		-				
	9.2.		subjects that the lectur	er leads for the seco					
		No.	Title of the subject		Curriculum				
		1.	Fundamentals of Seis	smic Risk			ing and Engineering		
							il and Methodius		
					University in		ing and Engineering		
					Seismology		ing and Engineering		
	9.3.	List of	subjects that the lectur	er leads for the thir					
		No.	Title of the subject		Curriculum		n		
							-		

		2.	Seismic Risk Seismic Hazard		Earthquake Engineeri Seismology / Ss. Cyri University in Skopje, Earthquake Engineeri Seismology (IZIIS) Earthquake Engineeri Seismology / Ss. Cyri	l and Methodius Institute of ng and Engineering ng and Engineering					
					University in Skopje, Earthquake Engineeri Seismology (IZIIS)	Institute of					
10.	Selecte	Seismology (IZIIS)									
	10.1.	Relevant published scientific papers (up to five)									
		No.	Authors	Tit	tle	Publisher / year					
		1.	Milutinovic, Z., Salic Makreska, R., Tomic, D., Trajchevski, J.	de	enealogy of velopment and dification of agoslavian earthquake	Springer, Bulletin of Earthquake Engineering/ 2022					
					sistant design						
		2.	Dragojevic, D., Salic Makreska, R., Milutinovic, Z.	bas Pro Im Im	nalysis of Exponent K sed on "SHARE" oject Data and its plications on portance Factors of H 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.	on du ear No Al	connaissance analysis buildings damaged ring Durres rthquake Mw6.4, 26 ovember 2019, bania: effects to n-structural elements	Springer, Bulletin of Earthquake Engineering/ 2021					
		4.	Markušic, S., Stanko, D., Penava, D., Trajber, D., Šalic, R.	Ot Hi Tra Pe Re	eliminary servations on storical Castle akoscan (Croatia) rformance under seent ML≥5.5 rthquakes	MDPI, Geosciences/2021					
		5.	Dumurdjanov, N., Milutinovic, Z. & Salic, R.	bac sei Re for Mi	ismotectonic model cking the PSHA and smic zoning of public of Macedonia National Annex to KS EN 1998-1:2012 rocode 8	Springer, Journal of Seismology/ 2020					
	10.2.	Particip	pation in scientific-research national a	nd i	nternational projects (up						
		No. 1.	Authors  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	Tit CF RI bas tra UC		Publisher / year 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	L2BR: Learn to be	European Union
		d'autorités locales d'Europe du Sud-Est, France	Resilient; UCPM-2020- KN-AG; GA-	Civil Protection Mechanism (UCPM)
		MoI- Ministarstvo Unutrashnjih Poslova, Montenegro	101017950	/2020-2022
		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		
		Gradevinski rakultet, Croatia		
	3.	Croatian Science Foundation (HRZZ)	SeisRICHerCRO: Seismic risk assessment	Croatian Science Foundation (HRZZ)
	3.	Croatian Science Foundation (HRZZ) City of Dubrovnik	Seismic risk assessment of cultural heritage	
	3.	Croatian Science Foundation (HRZZ) City of Dubrovnik Cathedral St. Jakov Šibenik	Seismic risk assessment	Foundation (HRZZ)
	3.	Croatian Science Foundation (HRZZ) City of Dubrovnik Cathedral St. Jakov Šibenik Trakošćan Castle	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	3.	Croatian Science Foundation (HRZZ) City of Dubrovnik Cathedral St. Jakov Šibenik	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	3.	Croatian Science Foundation (HRZZ) City of Dubrovnik Cathedral St. Jakov Šibenik Trakošćan Castle Department of Geophysics, Faculty of Science, University of	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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,	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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,	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)
	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	Seismic risk assessment of cultural heritage buildings in Croatia;	Foundation (HRZZ)

		I		T	T
			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.	Publish	ed books in the last five years (up to	five)	
		No.	Authors	Title	Publisher / year
		1.	-	-	
	10.4.	Publish	ed professional papers in the last five	years (up to five)	
		No.	Authors	Title	Publisher / year
		1.	Gjurovski, M., Sheshov, V., Salic,	Risk Assessment of the	City of Skopje/2021
			R., Stoilova, S., Dimitrovski, D.	City of Skopje from	
				natural disasters and	
				other accidents	
		2.	Salic, R., D. Tomic, M.	Non-destructive testing	IZIIS/2021
			Dimitrovski	of commertial building	
				(B+G+6) located in	
		2	C W. A 1.1 . D	Prishtina (Kosovo)	17110/2020
		3.	Sesov, V., Apostolska, R.,	Integrating Seismic Risk Consideration into	IZIIS/2020
			Sendova, V., Salic, R., Zurovski, A., Poposka, M.	Enegry Efficiency	
			A., I oposka, IVI.	Investments in Western	
				Balkans, Activity	
				1_Baseline Definition,	
				Technical Proposal	
				Selection #1265632	
		4.	Edip, K., D. Dojchinovski, V.	Defining seismic	IZIIS/2020
			Sheshov, R. Salic, M.	parameters at a site KP	
			Stojmanovska, I. Gjordjeska, T.	1055/1 KO Probishtip	
			Kitanovski, J. Chaneva, G.		
			Chapragoski, M. Dimitrovski, M.		
			Popovska, I. Zafirova, D.		
		_	Ivanovski		1711G (2020
		5.	Shendova V., V. Micov, R. Salic,	Static and seismic	IZIIS/2020
			M. Vitanova, B. Stojanoski, D.	analysis of the building	
			Tomic, M. Dimitrovski, J.	"Administrative	
			Trajchevski, Z. Neziri, B.	building of Makstil in	
			Petrovski, T. Zafirov, A. Nanevska, A. Zlateski, K.	Skopje"	
			Runevski, E. Delova		
11.	Mentor	shin at ii	ndergraduate, master and doctoral stu	dies	<u> </u>
11.	11.1.		tion works	0	
	11.2.		's theses	1	
	11.3.		al Dissertations	3	
12.			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. 1.	Authors  Sasay V. Borri B. Anastalaka B.	Title Seismic resilience	Publisher / year EAEE, Third		
	1.	Sesov, V., Borzi, B., Apostolska, R., Pitilakis, D., Stefanoski, S.,	through cross-border	European		
		Shkodrani, N., Bojadjieva, J.,	cooperation and	Conference on		
		Vitanova, M., Salic, R.,	European research	Earthquake		
		Bogdanovic, A., Stojmanovska, M.,	networking - CRISIS	Engineering and		
		Zuccolo, E., Bozzoni, F., Riga, E.,	project	Seismology/2022		
		Fotopoulou, S., Petridis, C.,				
	2	Babaleku, M., Edip, K.	NY 1.C 1 1	TAPE 17:1 W 11		
	2.	Salic, R., Neziri, Z., Dimitrovski, M., Milutinovic, Z., Trajchevski, J.,	Need for advanced Seismogenic Fault	IAEE, 17th World Conference on		
		Tomic, D.	characterisation Study	Earthquake		
		Tomic, D.	as a Basis for Reliable	Engineering/2021		
			Seismic Hazard			
	3.	Abarca, A., O-Reilly, G., Monteiro,	Regional Safety	IAEE, 17th World		
		R., Vitanova, M., Daniel, Y.,	Assessment of	Conference on		
		Belloti, D., Di Meo, A., Zuccolo, E.,	Existing Bridge Infrastructure	Earthquake		
		Salic, R., Edip, K., Borzi, B., Sesov, V., Calvi, G.M., Offir, Y.	Exposed to Seismic	Engineering/2021		
		v., carvi, G.,	Hazard			
	4.	Milutinovic, Z., R. Salic	UN Assistance and	IAEE, 17th World		
			Contribution to	Conference on		
			Development of	Earthquake		
			Earthquake	Engineering/2021		
			Engineering - European and			
			Worldwide			
	5.	Sheshov, V., Apostolska, R.,	Post-earthquake	1CROCEE-1st		
		Bozinovski, Z., Vitanova, M.,	mission in Durres,	Croatian Conference		
		Stojanoski, B., Edip, K.,	Albania, from science	on Earthquake		
		Bogdanovic, A., Salic, R., Jekic, G.,	to practice	Engineering, /2021		
		Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D.,				
		Zurovski, A., Trajcevski, J.				
12.2.		ce of at least two published research paper		tific journals with an		
	-	factor in the given field in the last five		D 11:1 /		
	No.	Authors Milutinovic, Z., Salic Makreska, R.,	Title Genealogy of	Publisher / year Springer, Bulletin of		
	1.	Tomic, D., Trajchevski, J.	development and	Earthquake		
		Tomic, D., Trajenevski, J.	codification of	Engineering/ 2022		
			Yugoslavian	8 11 6		
			earthquake resistant			
	_		design	a		
	2.	Dragojevic, D., Salic Makreska, R.,	Analysis of Exponent	Springer, Bulletin of		
		Milutinovic, Z.	K based on "SHARE" Project Data and its	Earthquake Engineering/ 2022		
			Implications on	Liiginceinig/ 2022		
			Importance Factors of			
			EH 1998-1			
	3.	Sheshov, V., Apostolska, R.,	Reconnaissance	Springer, Bulletin of		
		Bozinovski, Z., Vitanova, M.,	analysis on buildings	Earthquake		
		Stojanoski, B., Edip, K.,	damaged during	Engineering/ 2021		
	<u> </u>	Bogdanovic, A., Salic, R., Jekic, G.,	Durres earthquake			

		T	I	T
		Zafirov, T., Zlateski, A.,	Mw6.4, 26 November	
		Chapragoski, G., Tomic, D.,	2019, Albania: effects	
		Zurovski, A., Trajcevski, J.,	to non-structural	
		Markovski, I.	elements	
	4.	Markušic, S., Stanko, D., Penava,	Preliminary	MDPI,
		D., Trajber, D., Šalic, R.	Observations on	Geosciences/2021
			Historical Castle	
			Trakoscan (Croatia)	
			Performance under	
			Recent ML≥5.5	
			Earthquakes	
	5.	Dumurdjanov, N., Milutinovic, Z. &	Seismotectonic model	Springer, Journal of
		Salic, R.	backing the PSHA	Seismology/ 2020
			and seismic zoning of	
			Republic of	
			Macedonia for	
			National Annex to	
			MKS EN 1998-	
			1:2012 Eurocode 8	
	6.	Stanko, D., Z. Gulerce, S. Markusic,	Evaluation of the site	Elsevier, Soil
		R. Salic	amplification factors	Dynamics and
			estimated by	Earthquake
			equivalent linear site	Engineering/2018
			response analysis	
			using time series and	
			random vibration	
			theory based	
			approaches	
	7.	Mihaljevic, J., P. Zupancic, N.	BSHAP Seismic	Springer, Bulletin of
	7.	Kuka, N. Kaludjerovic, R. Koci, S.	BSHAP Seismic Source	Earthquake
	7.	Kuka, N. Kaludjerovic, R. Koci, S. Markusic, R. Salic, E. Dushi, E.	BSHAP Seismic Source Characterization	
	7.	Kuka, N. Kaludjerovic, R. Koci, S. Markusic, R. Salic, E. Dushi, E. Begu, Ll. Duni, M. Zivcic, S.	BSHAP Seismic Source Characterization Models for the	Earthquake
	7.	Kuka, N. Kaludjerovic, R. Koci, S. Markusic, R. Salic, E. Dushi, E. Begu, Ll. Duni, M. Zivcic, S. Kovacevic, I. Ivancic, V.	BSHAP Seismic Source Characterization Models for the Western Balkan	Earthquake
	7.	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.	BSHAP Seismic Source Characterization Models for the	Earthquake
	7.	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.	BSHAP Seismic Source Characterization Models for the Western Balkan	Earthquake
		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	Earthquake Engineering/2017
	7.	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 Salic, R., Sandıkkaya, M.A.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  Reply to "Comment	Earthquake Engineering/2017  Springer, Bulletin of
		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 Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  Reply to "Comment to BSHAP project	Earthquake Engineering/2017  Springer, Bulletin of Earthquake
		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  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  Reply to "Comment to BSHAP project strong ground motion	Earthquake Engineering/2017  Springer, Bulletin of
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		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  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,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  Reply to "Comment to BSHAP project strong ground motion database and selection of suitable ground motion models for the	Earthquake Engineering/2017  Springer, Bulletin of Earthquake
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		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  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,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  Reply to "Comment to BSHAP project strong ground motion database and selection of suitable ground motion models for the Western Balkan Region" by Carlo	Earthquake Engineering/2017  Springer, Bulletin of Earthquake
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	8.	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  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 Seismic Source Characterization Models for the Western Balkan Region  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	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017
		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  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.  Salic, R., Sandıkkaya, M.A.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of
	8.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of Earthquake
	8.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground Motion Database and	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of
	8.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground Motion Database and Selection of Suitable	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of Earthquake
	8.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N., Kaludjerovic, N., Kotur, N., Kaludjerovic, N., Kotur, N., Kaludjerovic, N., Kotur, N.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground Motion Database and Selection of Suitable Ground Motion	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of Earthquake
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	8.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N., Kaludjerovic, N., Kotur, N., Kaludjerovic, N., Kotur, N., Kaludjerovic, N., Kotur, N.,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground Motion Database and Selection of Suitable Ground Motion Models for the Western Balkan	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of Earthquake
12.3.	9.	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  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.  Salic, R., Sandıkkaya, M.A., Milutinovic, Z., Gulerce, Z., Duni, Ll., Kovacevic, V., Markusic, S., Mihaljevic, J., Kuka, N., Kaludjerovic, V., Kotur, N., Kaludjerovic, N., Kotur, N., Krmpotic, S., Kuk, K., and Stanko, Krmpotic, S., Kuk, K., and Stanko,	BSHAP Seismic Source Characterization Models for the Western Balkan Region  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 BSHAP Project Strong Ground Motion Database and Selection of Suitable Ground Motion Models for the Western Balkan Region	Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017  Springer, Bulletin of Earthquake Engineering/2017

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		a on lecturers teaching lies and mentors of do			f the first, the	e second	and the third cycle of	
1.	Name a	nd surn	name	Marta Stoji	nanovska				
2.	Date of	birth		12.4.1974	12.4.1974				
3.	Education	on leve	el	VIII					
4.	Title of s	scientif	ic degree achieved	Doctor of technical sciences					
5.	Where a	nd wh	en the lecturer	Education		Year		Institution	
	accomp	lished l	his/her education and	High educa	tion	2001		Faculty of Civil	
	acquired	acquired a scientific degree						Engineering	
				Magisteriu	m	2007		UKIM-IZIIS	
				Ph.D		2015		UKIM-IZIIS	
6.	Field, di	scipline	e and sub-discipline of	Field		Discipline		Sub-discipline	
	M.Sc. de		and the discipline of	Technical s	ciences	Civil Engi	neering	Earthquake	
						OIVII Ziigii		Engineering	
7.	Field di	coinlin	e and sub-discipline of	Field		Discipline		Sub-discipline	
/.	Ph. D. d		c and sub-discipline of	Technical s	ciancas	Civil Engi	naarina	Earthquake	
	I II. D. G	egree		1 ecililicai s	ciences	Civil Eligii	neering	Engineering	
8.	If the lea	cturer is	s in a working	Institution		1	Title in	itle in which he/she has been	
			she should state				elected	and in which field	
	his/her a	ffiliatio	on, the awarded title	UKIM-IZII	[S		Associa	ate professor	
	and in w	hich fi	eld						
9.	List of s	ubjects	that the lecturer teache	s separately	in the first, the	e second and t	the third	cycle of studies	
	9.1.	List of	subjects that the lecture	r teaches at t	he first cycle o	of studies			
		No.	Title of the subject			Curriculum /	institutio	tion	
		1.							
		2.							
	9.2.	List of	subjects that the lecture	r teaches at t	he second cyc	le of studies			
		No.	Title of the subject			Curriculum /	institutio	on	
		1.	Engineering Seismold	ogy			ring/ UKIM-IZIIS		
		2.	Timber Structures		Earthquake Engine			ering/ UKIM-IZIIS	
	9.3.	List of	subjects that the lecture	r teaches at ti	he third cycle	of studies			
		No.	Title of the subject		-	Curriculum /institution		on	
		1.	Base of Earthquake E Engineering Seismold		and	Earthquake Engineering, IZIIS			
		2.	Seismology of strong seismic microzonatio	g earthquakes and		Earthquake Engineering, IZIIS			
10.	Selected	l result	s achieved in the last f	ive years					
			ant published scientific		to five)				
	-	No.	Authors	1 -1 («P	Title			Publisher/year	
Ц					l			I	

	1.	Poposka M., Dojchinovski D., Stojmanovska M., Bozhinovski,	"Comparison of Structural	Proceedings, 3rd
		Z., Gjorgjeska I	Response to Mavrovo	European Conference
			Earthquake Records, Original	on Earthquake
			and Scaled"	Engineering and
	2.	Stojmanovska M., Dojchinovski D., Gjorgjiev I., Chapragoski G.,	"Seismic Monitoring of Tailing	Proceedings, Second
		Gjorgjeska I., Savic S., Stanojevic M., Ilic B., Novicic	Dams",	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.	Geophysical Site	Proceedings, 1 <sup>st</sup>
		Chapragovski,	Characterization For Strong	Croatian Conference
			Motion Stations. A Case Study	on Earthquake
	5.	Dojcinovski D., Stojmanovska M., Cernih D., Dimishkovska	The Impact of Griva earthquakes	Proceedings, 16 <sup>th</sup>
		B., Gjorgjeska I.	on structures damage	European Conference
				on Earthquake
10.2.	Particip	pation in scientific-research and inte	rnational 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	UCPM-2020-KN-AG; GA-	European Union Civil Protection Mechanism (UCPM) /2020-2022
	10.3.	Publish			
		No.	Authors	Title	Publisher/year
		1.			
	10.4.	Publish	ed 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.	Mentor	rship at ı	I indergraduate, master and doctora	l studies	ı

	11.1.	Final e	xaminations for award of diplo	oma		0			
	11.2.	M. Sc.	theses			1			
	11.3.	Doctor	al dissertations			0			
12.	For the	mentors	s of doctoral theses, selected res	ults a	chieve	d in the last four	five years		
	12.1.		ace on scientific-research paper fic publications in the given fie	-			•	urnals or in	ternational
		No.	Authors		Title			Publis	her/year
		1.	Gjorgjeska I., Sheshov V., Stojmanovska M., Bojadjieva Dojchinovski D., Edip K., Poposka M.		North Macedonia  Mavrovo Earthquake,			EAEE, Th European on Earthqu Engineerin Seismolog	Conference lake lig and
		2.	Poposka M., Dojchinovski D Stojmanovska M., Gjorgjeska Chapragoski G.				CroCEE, First Croatian Conference on Earthquake Engineering/2020		
		3.	Dojcinovski D., Bozinovski, Stojmanovska M., Chapragos G., Poposka M.,		And I	nalysis of Global Damage ad Functioning Of Highway In rthquakes Condition"		Disaster Prevention and Mitigation in the	
		4.	Dojcinovski D., Stojmanovsk M., Cernih D., Dimishkovska Gjorgjeska I			Impact of Griva quakes on structi ge"		16ECEE/ 16th European Conference on Earthquake Engineering /2017	
		5.	D. Dojcinovski, M. Stojmanovska, M. Garevski, Guoxin, B. Dimiskovska, I. Gjorgjeska, N. Kuljic	W.	seism	town core of Oh ic parameters fo crengthening of s	r repair	16WCEE/ 16 <sup>th</sup> World Conference on Earthquake Engineering/2017	
	12.2.		Lice on at least two scientific-resonant factor in the given field for			_	ternational s	scientific jou	ırnal
		No.	Authors	л ше	Title	ve years		Publis	her/year
	1	1.							
	12.3.		Evidence on at least three parti	cipati	ions in	international me	etings for th	ıe last four v	ears
		No.	Authors		e of paper Internation			Year	
		1.	Dojcinovski D., M. Stojmanovska, I. Gjorgjiev, M. Poposka, G. Capragoski, I. Gjorgjeska, S. Milevski, N. Kuljic, Vladimir Koviloski	Dam expe	ıs-Ma	onitoring of vrovo earthquake and results	5 <sup>th</sup> Congr Dams Str R.N.Mac	ruga,	2021

	2.	Dojcinovski D., Aleksovski D, Mirakovski G., Stojmanovska M.	action from blasting for the	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

NT 14	Data on lecturers teaching within t	he curriculums of the	ne first, the secon	nd and the th	aird cycle of studies		
No. 14	and mentors of doctoral dissertatio				-		
1.	Name and Surname	Julijana Bojadjiev	va .				
2.	Date of birth	24.10.1983					
3.	Education level	VIII					
4.	Title of scientific degree achieved	Doctor of technic	al sciences				
5.	Where and when the lecturer	Education	Year		Institution		
	accomplished his/her education and acquired a scientific degree	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-	Field	Discipline		Sub-discipline		
	discipline of M.Sc. degree	Technical	Civil Enginee				
		sciences	Civii Eligilice	ing.	Engineering		
7.	Field, discipline and sub-	Field	Discipline	Sub-Discipline			
, ·	discipline of Ph. D. degree	Technical	Civil Enginee	ring	Earthquake		
	r	sciences	Civii Eligiliee	anng	Engineering		
8.	If the lecturer is in a working	Institution	1	Title in wh	ich he/she has been		
	relationship, he/she should state				d in which field		
	his/her affiliation, the awarded	Ss. Cyril and Met	hodius	Associate 1			
	title and in which field	University in Sko			e Engineering		
		of Earthquake En			- <del>-</del>		
		Engineering Seisi					
9.	List of subjects that the lecturer tea				hird cycle of studies		
	9.1. List of subjects that the lec						
	No. Title of the subject		Curriculum /inst	titution			
	1.  -						
	9.2. List of subjects that the lec						
	No. Title of the subject		Curriculum /inst				
	1. Geotechnical Eartho		Earthquake Eng				
	Engineering				lethodius University		
			in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)				
	2 9 11 1						
	2. Soil dynamics and f	Coundations Earthquake Engineering and Engineering					

	9.3.	List of No. 1. 2. 3.	f subjects that the lecturer leads for Title of the subject Experimental and Numerical Methods in Earthquake Geotechnical Engineering  Soil Structure interaction  Advanced topics in soil dynamic		Curriculum /institution  Earthquake Engineering and Seismology / Ss Cyril and M in Skopje, Institute of Earthquad Engineering Seismology  Earthquake Engineering and Seismology / Ss Cyril and M in Skopje, Institute of Earthquad Engineering Seismology  Earthquake Engineering and	Engineering (UKIM-IZIIS)  Engineering (ethodius University tuake Engineering (UKIM-IZIIS)  Engineering (ethodius University tuake Engineering (ethodius University tuake Engineering (UKIM-IZIIS)  Engineering
					Seismology / Ss Cyril and M in Skopje, Institute of Earthq and Engineering Seismology	uake Engineering
10.	Select	ed resu	lts in the last five years			
	10.1.		vant published scientific papers (up	o to fi	ive)	
		No.	Authors	Titl		Publisher / year
		1.	<b>Bojadjieva, Julijana</b> , Vlatko Sheshov, Kemal Edip, and Toni Kitanovski.	Ver Sus Ear Liqu Env	ification of a System for tainable Research on thquake-Induced Soil uefaction in 1-g rironments	MDPI, Geosciences/2022
		2.	Vitanova, M., Bogdanovic, A., Bozinovski, Z. Edip K., <b>Bojadjieva J</b> . et al.	for dam Mw Alb	smic performance validation RC building structures naged by Durres earthquake, 6.4, 26 November 2019, ania	Springer, Bulletin of Earthquake Engineering/ 2022
		3.	Edip, K., Sheshov, V., Wu, W. & <b>Bojadjieva J</b> .	satu	nerical modelling of trated boundless media with nite elements	Springer, Acta Geotechnica/ 2021
		4.	<b>Bojadjieva, J.</b> , Sheshov, V., Edip, K. <i>et al.</i>	of S	ral Site Effects in Definition Seismic Design Parameters Historical Monuments	Springer, Soil mechanics and foundation engineering/2020
		5.	<b>Bojadjieva, J.,</b> Sheshov, V., & Bonnard, C.	eart case	ard and risk assessment of hquake-induced landslides—e study.	Springer, Landslides/ 2018
	10.2.	Partic	cipation in scientific-research nation			
		No.	Authors	Titl	e	Publisher / year
		1.	IZIIS – Ss. Cyril and Methodius university in Skopje, Institute of Earthquake Engineering and Engineering Seismology	CRI asse tran	ISIS: Comprehensive RISk essment of basic services and asport InfraStructure; UCPM-0-PP-AG; GA-101004830	European Union Civil Protection Mechanism (UCPM) /2020- 2022
			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		
	2.	NALAS – Réseau des	L2BR: Learn to be Resilient;	European Union
	2.	associations d'autorités locales	UCPM-2020-KN-AG; GA-	Civil Protection
		d'Europe du Sud-Est, France	101017950	Mechanism
		MoI- Ministarstvo Unutrashnjih Poslova, Montenegro		(UCPM) /2020- 2022
		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 Croatia		
	3.	EUCENTRE - European	ERIES) Engineering Research	Horizon Europe /
	٥.	Centre for Training and	Infrastructures for European	2022-2026
		Research in Earthquake Engineering, Pavia, Italy	Synergies Synergies	2022 2020
		IZIIS – Ss. Cyril and		
		Methodius university in		
		Skopje, Institute of Earthquake		
		Engineering and Engineering		
		Seismology		
	4.	Bauhaus-University Weimar	PARFORCE - Partnership for	Erasmus +
		(BUW), Ruhr University Bochum (RUB), University Aveiro (UA), University Osijek (UNIOS), and Institute of Earthquake Engineering and Engineering Seismology (IZIIS).	Virtual Laboratories in Civil Engineering	Programme, Horizon Europe (2021-2023)
10.5	B ***	,	(5)	
10.3.		shed books in the last five years (u		D 11: 1
	No.	Authors	Title	Publisher / year
10.1	1.	-	-	
		shed professional papers in the las		Deskilled and
	No.	Authors	Title	Publisher / year
	1.	Sheshov V. Edip K.	REPORT on CONSULTING	IZIIS/2022
		Bojadjieva J. et al.	SERVICES IN THE FIELD OF	
			RESEARCH of the dynamic	
			properties of soil and performing dynamic analyses	
			performing dynamic analyses	

F	ı		Т	T	Ţ
				using a dynamic triaxial system	
				, for needs of team members of	
				the scientific - researsh project	
		2.	Bojadjieva J., Edip K,	"ElectroSoil "'; Дефинирање на сеизмички	IZIIS/2022
		۷.	Sheshov V et al.	параметри за реконструкции	12113/2022
			Sheshov v et al.	на погон флотација ( дел за	
				флотирање на бакар ) во	
				Рудникот за бакар и злато	
				Бѕчим - Радовиш, КП 630/8	
				КО Топилница ,Радовиш.	
		3.	Sheshov V.; Vitanova M.;	Residential Seismic Survery	IZIIS/2021
			Bojadjieva J.; Jekic G.	Report	
			3 3	Evaluation of Seismic Stability	
				of Leased Residential Property	
				4th street	
				251,Bardovci,Skopje,Republic	
				of North Macedonia;	
		4.	Едип, К., Д. Дојчиновски, В.	Дефинирање на сеизмички	ИЗИИС/2020
			Шешов, Р. Шалиќ, М.	параметри на локација КП	
			Стојмановска, И. Ѓорѓеска,	1055/1 КО Пробиштип	
			Т. Китановски, Ј. Чанева, Г.		
			Чапрагоски, М.		
			Димитровски, М. Поповска,		
		5.	И. Зафирова, Д. Ивановски	ИЗИИС -ИН -СИТУ ГЕО -	ИЗИИС/2021
		5.	Bojadjieva J.; Edip K.; Sheshov V.; Dojcinovski D.;		ИЗИИС/2021
			Bogdanovic A.; Stojmanovska	Лабараторија;	
			M.; Salic R.; Vitanova M.;		
			Kitanovski T.; Gjorgjeska I.;		
11.	Mento	rshin a	t undergraduate, master and docto	oral studies	l
111	11.1.		uation works	0	
	11.2.		er's theses	4	
	11.3.	Docto	oral Dissertations	1	
12.	For m	entors o	of doctoral theses, selected results	in the last four/five years	
	12.1.			ch papers in international scientific	
			ational scientific publications in t	he given field (up to six) in the last	
		No.	Authors	Title	Publisher / year
		1.	Sesov, V., Borzi, B., Apostolska	_	EAEE, Third
			R., Pitilakis, D., Stefanoski, S.,	cross-border cooperation and	European
			Shkodrani, N., Bojadjieva, J.,	European research	Conference on
			Vitanova, M., Salic, R.,	networking - CRISIS project	Earthquake
			Bogdanovic, A., Stojmanovska, M., Zuccolo, E., Bozzoni, F.,		Engineering and Seismology/2022
			Riga, E., Fotopoulou, S., Petridi	c	Seisiliology/2022
			C., Babaleku, M., Edip, K.	3,	
		2.	Salic, R., Neziri, Z., Dimitrovsk	i, Need for advanced	IAEE, 17th World
			M., Milutinovic, Z., Trajchevski		Conference on
			J., Tomic, D.	characterisation Study as a	Earthquake
				Basis for Reliable Seismic	Engineering/2021
				Hazard	
		3.	Abarca, A., O-Reilly, G.,	Regional Safety Assessment	IAEE, 17th World
1		i		of Existing Bridge	Conference on
			Monteiro, R., Vitanova, M.,	of Existing Druge	Conference on
			Daniel, Y., Belloti, D., Di Meo, A., Zuccolo, E., Salic, R., Edip,	Infrastructure Exposed to Seismic Hazard	Earthquake Engineering/2021

I	1		V Dorgi D Cocov V Colvi		
			K., Borzi, B., Sesov, V., Calvi, G.M., Offir, Y.		
		4.	Milutinovic, Z., R. Salic	UN Assistance and	IAEE, 17th World
			, .,	Contribution to Development	Conference on
				of Earthquake Engineering -	Earthquake
				European and Worldwide	Engineering/2021
		5.	Sheshov, V., Apostolska, R.,	Post-earthquake mission in	1CROCEE-1st
			Bozinovski, Z., Vitanova, M.,	Durres, Albania, from science to practice	Croatian Conference on
			Stojanoski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic,	to practice	Earthquake
			G., Zafirov, T., Zlateski, A.,		Engineering, /2021
			Chapragoski, G., Tomic, D.,		8 8,
			Zurovski, A., Trajcevski, J.		
12			nce of at least two published researc		c journals with an
			et factor in the given field in the last	1	D 11'-1/
		No. 1.	Authors Sesov, V., Borzi, B., Apostolska,	Title Seismic resilience through	Publisher / year EAEE, Third
		1.	R., Pitilakis, D., Stefanoski, S.,	cross-border cooperation and	European
			Shkodrani, N., Bojadjieva, J.,	European research	Conference on
			Vitanova, M., Salic, R.,	networking - CRISIS project	Earthquake
			Bogdanovic, A., Stojmanovska,		Engineering and
			M., Zuccolo, E., Bozzoni, F.,		Seismology/2022
			Riga, E., Fotopoulou, S., Petridis, C., Babaleku, M., Edip, K.		
	-	2.	J. Bojadjieva, V. Sheshov, K.	SIMULATION OF	IAEE, 17th World
			Edip, J. Chaneva, T. Kitanovski	MONOTONIC AND	Conference on
			and D. Ivanovski.	CYCLIC TRIAXIAL TESTS	Earthquake
				ON NATURAL SAND	Engineering/2021
	_	3.	J. Bojadjieva, V. Sheshov, K.	In situ geotechnical	ICONHIC 2022,
		٥.	Edip, A. Bogdanovic, I.	laboratory in urban	Athens, Greece
			Gjorgjeska, T. Kitanovski and D.	environment	,
	-	4.	Ivanovski.  Julijana Bojadjieva, Vlatko	Comparison of cyclic simple	Proceedings of the
		ᅻ.	Sheshov, Kemal Edip, Jordanka	shear and triaxial tests on	XVII ECSMGE-
			Chaneva, Toni Kitanovski, Dejan	natural sand	2019 Geotechnical
			Ivanovski.		Engineering
					foundation of the
					future ISBN 978-
					9935-9436-1-3. (invited paper).
					Reykjavik, Iceland
					1-6 September,
					2019.
		5.	Julijana Bojadjieva, Vlatko	Harmonized approach for	5th Resylab,
			Sheshov, Kemal Edip, Radmila	mapping the earthquake- induced landslide hazard at	Regional
			Shalic, Marta Stojmanovska, Roberta Apostolska, Stavroula	the cross-border region	Symposium on landslides,
			Fotopoulou, Dimitris Pitilakis,	between North Macedonia,	organized by ICL,
			NeritanShkodrani, Markel	Greece and Albania	Rijeka, Croatia
			Babaleku, Francesca Bozzoni,		2022.
			Antonella di Meo.		
	-	6.	Julijana Bojadjieva, Vlatko	GIS-based assessment of	ICEGE, Rome,
			Sheshov, Kemal Edip, Jordanka	liquefaction potential for	Italy, 2019.

		Chaneva, Toni Kitanovs Ivanovski.	ki, Dejan	selected ear	thquake scenarios		
12.3.	Evide	ence of at least three partic	inations in	international	meetings in the last	four vear	S
	No	Authors		the paper	International meeting/conference		Year
	1.	J. Bojadjieva, V. Sheshov, K. Edip, A. Bogdanovic, I. Gjorgjeska, T. Kitanovski and D. Ivanovski.		eotechnical ry in urban nent	ICONHIC 2022, A Greece		2022
	2.	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Jordanka Chaneva, Toni Kitanovski, Dejan Ivanovski.		mple shear tial tests on	Proceedings of the ECSMGE-2019 Geotechnical Eng- foundation of the J ISBN 978-9935-94 (invited paper). Reykjavik, Iceland September, 2019.	ineering future 136-1-3.	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.	landslide the cross region be North M	n for g the ke-induced e hazard at s-border	5th Resylab, Regio Symposium on lar organized by ICL		2022

	No. 15		eata on lecturers teaching yele of studies and men			st, the second and the third		
1.	Name a	nd su	ırname	Marija Vitanova				
2.	Date of	birth	Į.	27.06.1979				
3.	Educati	on le	vel	PhD				
4.			tific degree achieved	Doctor of technical sc	eiences			
5.			when the lecturer	Education	Year	Institution		
			d his/her education and cientific degree	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, d	iscipl	ine and sub-discipline of	Field	Discipline	Sub-discipline		
	M.Sc. d	M.Sc. degree		Technical Sciences	Civil Engineering	Earthquake Engineering		
7.	Field, d	iscipl	ine and sub-discipline of	Field	Discipline	Sub-discipline		
	Ph. D. o	degre	e	Technical Sciences	Civil Engineering	Earthquake Engineering		
8.			r is in a working he/she should state	Institution		Title in which he/she has been elected and in which field		
		affilia	tion, the awarded title	Ss. Cyril and Methodi in Skopje, Institute of Engineering and Engi Seismology (IZIIS)	Earthquake	Associate professor, Earthquake Engineering		
9.	List of s	subjec	ets that the lecturer teache	es separately in the first,	the second and	the third cycle of studies		
	9.1.	List	of subjects that the lecture	r teaches at the first cvcl	le of studies			
		No.	Title of the subject	<u> </u>	Curriculum	/institution		
		1.	-		-			
	9.2.		of subjects that the lecture	r teaches at the second c	cycle of studies			
		No.	Title of the subject		Curriculum	/institution		
		1.	Bridges, transport infra	structural systems Earthquake Methodius		Engineering/Ss. Cyril and University in Skopje, Institute of Engineering and Engineering		

		2.	Designing of engineering steel struc	ctures	Methodius	Engineering/Ss. Cyril and University in Skopje, Institute of Engineering and Engineering (IZIIS)		
		3.	Fundamentals of Seismic Risk		Methodius 1	Engineering/Ss. Cyril and University in Skopje, Institute of Engineering and Engineering (IZIIS)		
	9.3.	List	of subjects that the lecturer teaches at t					
		No.	Title of the subject		Curriculum /institution			
		1.	Designing of transport infrastructur in seismic regions	al systems	Methodius	Engineering/Ss. Cyril and University in Skopje, Institute of Engineering and Engineering (IZIIS)		
	structures ME			Methodius	Engineering/Ss. Cyril and University in Skopje, Institute of Engineering and Engineering (IZIIS)			
		3.	Advanced analysis of steel structure	Methodiu Earthqual Seismolo and State Monitoring of Existing Earthqual Methodiu Earthqual		e Engineering/Ss. Cyril and University in Skopje, Institute of e Engineering and Engineering		
		4.	Diagnostics and State Monitoring of 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.	Selecte	d rest	ılts achieved in the last five years					
	10.1.	Rele	vant published scientific papers (up	to five)				
		No.	Authors	Title		Publisher/year		
		1.	Vitanova, M., Bogdanovic, A., Bozinovski, Z., Edip, K.,	Seismic per	formance	Springer, Bulletin of Earthquake Engineering/ 2022		
			Bojadzieva, J., Delova, E., Zafirov, T.	validation fo	or RC			
				building str	uctures			
				damaged by	Durres			
		2.	Sheshov, V., Apostolska, R.,	Reconnaissa	ance	Springer, Bulletin of Earthquake Engineering/ 2021		
			Bozinovski, Z., Vitanova, M., Stojanovski, B., Edip, K., Bogdanovic, A., Salic, R., Jekic,		buildings	Engineering/ 2021		
			G., Zafirov, T., Zlateski, A., Chapragoski, G., Tomic, D.,	damaged du	ring Durres			
			Zurovski, A., Trajcevski, J., Markovski, I.	earthquake	Mw6.4, 26			
				November 2	2019,			

	3.	Vitanova, M., Bojadzieva, J., Edip, K., Sheshov, V., Hristovski, V.	Soil-structure effects on assessment of seismic response of girder bridges	Conference Engineer	ings, 3 <sup>rd</sup> European nce on Earthquake ring and Seismology, st, Romania, 2022
	4.	Vitanova, M., Salic, R., Bogdanovic, A., Edip, K., Tomic, D.	Analytical and experimental in-situ measured fundamental	Conference on Struc Health Nof Intelli	tural Monitoring
	5.	Vitanova, M., Bojadzieva, J., Micajkov, S.	periods of vibration on  Geo-referenced inventory toward		ings, IABSE Congress,
			seismic safety of	Future S	ocietal Needs, Ghent,
10.2.	Partic	cipation in scientific-research and inte	1 0 1	ve)	
	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	Protection /2020-20	
	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	Protection	
10.3.	Publi	ished books in the last five years (up	to five)	<u>I</u>	
		· · · · · · · · · · · · · · · · · · ·	itle		Publisher/year

		1.					
	10.4.	Publ	ished professional papers for the l	ast five ye	ears (up to five)		
			Authors	Title		Publisher/year	
		Bojadzieva, J., Jekic, G.			al seismic survey report, on of the seismic stability 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.	the milita	screening and analysis of ary steel bridge in Krivolak rith 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  Analysis of Existing State of the Administrative Building of MAKSTIL, Skopje		Report IZIIS 2022-01	
		5.	Shendova V., Micov V., Shalic R., Vitanova M.			Report IZIIS 2020-68	
11.	Mentor	ship a	at undergraduate, master and docto				
	11.1.		l examinations for award of diplor	na	-		
	11.2.		c. theses		-		
	11.3.		toral dissertations		-		
12.			ors of doctoral theses, selected resu				
	12.1.		ence on scientific-research papers atific publications in the given field	-	_	ournals or international	
		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, F.	border co	resilience through cross- poperation and European networking - CRISIS	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.	Existing	Safety Assessment of Bridge Infrastructure 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.	Albania, from science to pr	Post-earthquake mission in Durres, Albania, from science to practice				
12.2.		vidence on at least two scientific-research papers published in international scientific journal ith impact factor in the given field for the last five years						
	1.	Authors  Vitanova, M., Bogdanovic, A., Bozinovski, Z., Edip, K., Bojadzieva, J., Delova, E., Zafirov, T.	Title  Seismic performance valida RC building structures dam Durres earthquake, Mw6.4, November 2019, Albania	naged by	Publisher/year  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, E Earthquake Engineerin	e g/ 2021		
12.3.	No.	Evidence on at least three parti	cipations in international mee Title of paper	tings for t		years Year		
	NO.	Audiors	Title of paper		conference	1 Cai		
	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 Ex Conference Earthqua Enginee Seismolo Buchare Romania	nce on ake ring and ogy, st,	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 Croat Confere Earthqua Enginee Zagreb,	nce on ake ring,	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 Wo Conferent Earthqua Engineen Sendai,	nce on ake ring,	2021		

	No. 16		ng within the curriculums of the first, the second and the third tors of doctoral dissertations						
1.	Name and	surname	Goran Jekic						
2.	Date of bi	rth	13.07.1978						
3.	Education	level	Ph.D.						
4.	Title of sci	entific degree achieved	Doctor of technical science						
5.	Where and	d when the lecturer	Education	Year		Institution			
	accomplished his/her education and acquired a scientific degree		Graduated civil engineer			Ss Cyril and Methodius University in Skopje, Faculty of Civil Engineering,			
			Master of science	2010		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 disc	ipline and sub-discipline of	Field	Discipline		Sub-discipline			
0.	M.Sc. degr		Technical Science	Civil Engi		Earthquake Engineering			
			Technical Science	Civil Engi	neering	Disaster Management Policy (Earthquake Engineering)			
7.	Field, disc	ipline and sub-discipline of	Field	Discipline		Sub-discipline			
	Ph. D. deg	gree	Technical Science	Civil Engi	neering	Earthquake Engineering			
8.		rer is in a working p, he/she should state	Institution		Title in which he/she has been elected and in which field				
	his/her affiliation, the awarded title and in which field		Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (UKIM-IZIIS)		Assistant Professor, Earthquake Engineering				

9.1.	List o	f 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 Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	2.	Reinforced Concrete Structures	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	3.	Introduction to MATLAB and its Application to Engineering Analysis	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	4.	Masonry Structures	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer 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 Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	2.	Dynamics of Structures in Earthquake Engineering	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	3.	General Design Principles For Seismic Resistant Building Structures	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					
	4.	Advanced Application of MATLAB for Solving Engineering Problems	Earthquake Engineering and Engineer Seismology / Ss Cyril and Methodius University in Skopje, Institute of Earthquake Engineering and Engineer Seismology (UKIM-IZIIS)					

		5.	Advancd Structural Dynamics		Earthquake Engineer Seismology / Ss Cyr University in Skopje Earthquake Engineer Seismology (UKIM-	il and Methodius , Institute of ring and Engineering	
		6.	Design of Seismic Resistant Buil Structures	Seismology / Ss ( University in Sko		, Institute of ring and Engineering	
		7.	Repair and Strengthening of Buil Structures	ding	Seismology / Ss Cyr University in Skopje	, Institute of ring and Engineering	
10.	Selecte		s achieved in the last five years		•		
	10.1.		ant published scientific papers (up				
		No.	Authors	Title		Publisher/year	
		1.	Sheshov V., Apostolska R., Bozinovski Z., Vitanova M., Stojanoski B., Edip K.,		ance Analysis on Damaged during	Bulletin of Earthquake Engineering, Case	
			Bogdanovic A., Salic R., Jekic G., Zafirov T., Zlateski A., Chapragoski G., Tomic D.,	Durres Eart	hquake Mw6.4, 26	Study Reports.	
			Zurovski A., Trajchevski J., Markovski I.	November 2	2019, Albania:	Springer / 2021	
		2.	Isaković. T., Gams M., Janevski A., Rakićević Z., Bogdanović A., Jekić G., Kolozvari K., Wallace J., Fischinger M.		test of RC walls'	Building Materials and Structures / 2021	
		3.	Ceko, B., Petkovski, R., Attar, O., Jekic, G., Gavrilovic, P.	Consolidation Strengthenia	on, Structural on and Seismic ng of Ali Pasha Ohrid, North	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		Vayas, I., Mazzolani,	
				Developed '	Within the	F.M. (eds) Protection	
				PROHITEC	CH Project in Seismic	of Historical	
				Retrofitting	of Mosques	Constructions.	
						DROUTECH 2021	

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

1	1			
	1.	Eidgenössische Technische	SERA: The Seismology and	Horizon 2020-
		Hochschule Zürich (ETH)	Earthquake Engineering	INFRAIA-01-2016-
		Centro Europeo di Formazione e	Research Infrastructure Alliance	2017 'Integrating
		Ricerca in Ingegneria Sismica	for Europe	Activities for
		(EUCE)		Advanced
		Joint Research Centre –		Communities'/
		European Commission (JRC)		2017-2020
		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)		

	2.	university in Skopje, Institute of Earthquake Engineering and		European Union Civil Protection Mechanism (UCPM) / 2020-2022
		EUCENTRE - European Centre for Training and Research in Earthquake Engineering, Pavia, Italy		
	3.	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.	Publish	ed 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.	Publish	ed 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	Repo	rt from the inspection	n and	UKIM-IZI	IS / 2022	
			Aleksandar, Jekic Goran,	contr	ol of the load capaci	ty of			
			Zlateski Aleksandar, Kitanovski	the sl	ab on the second flo	or in			
			Toni, Ivanovski Dejan, Delova		uilding of Stopanska	ι			
			Elena		a, Radovish				
		5.	Shendova Veronika, Apostolska		rt on the analysis of		UKIM-IZI	IS / 2022	
			Roberta, Jekic Goran, Zlateski		ng construction of the				
			Aleksandar, Delova Elena,		donian Telecom fac	ility in			
			Zhurovski Aleksandar	Strun	nica				
11.	Mentor		indergraduate, master and doctor		S				
	11.1.	Final e	xaminations for award of diploma	a	-				
	11.2.	M. Sc.	theses		-				
	11.3.	Doctor	al dissertations		-				
12.	For the	mentors	of doctoral theses, selected results	achieve	ieved in the last four/five years				
	12.1.	Eviden	ce on scientific-research papers p	ublished	ished in international scientific journals or international				
		scientif	ic publications in the given field (	(up to si	x) for the last five ye	ears			
		No.	Authors	Title	Title			Publisher/year	
		1.							
	12.2.	Eviden	ce on at least two scientific-research	ch papei	s published in intern	ational s	cientific jou	rnal	
		with im	pact factor in the given field for th	ne last fi	ve years				
		No.	Authors	Title			Publisher/y	rear	
		1.							
	12.3.		Evidence on at least three particip	ations ir	international meetin	gs for th	e last four y	ears	
		No.	Authors Ti	tle of pa	iper I	nternatio	nal	Year	
					r	neeting/c	conference		
		1.							

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

### DIPLOMA SUPPLEMENT

1. DATA ON THE DIPLOMA HOI	LDER
1.1 Name	
1.2. Surname	
1.3. Date of birth, place and country of birth	
1.4. Personal number	
2. DATA ON ACQUIRED QUALIF	FICATION
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	Macedonian and English language
process  3. DATA ON THE DEGREE (CYC)	LE) OF OUALIFICATION
·	
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

	T							
	Rules for Enro Master Studies							
	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 o	an be for	und on w	WW.1Z11S	<u>.edu.mk</u> )			
4.3. Data on the study programme (major, module, grades, ECTS credits)  Certificate on passed exams (enclosed to this document)								
4.4. Grading system (scheme of	System of numbers from 5-10	10	9	8	7	6	5	
grades and criteria for obtaining grades)	System of points (1-100)	91- 100	81-90	71-80	61-70	51-60	< 50	
	ECTS system	A	В	C	D	Е	F	
4.5. Average grade in the course of the studies	The average grade in the course of the studies is computed as an average of the grades obtained for passed exams							
5. DATA ON THE USE OF THE Q	UALIFICATION	Ī						
5.1. Access to further studies	Doctoral stud	lies						
5.2 Professional status (if applicable)								
6. ADDITIONAL DATA								
6.1. Additional data on the student								
6.2. Additional data on the higher education institution	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							
7. CERTIFICATION OF THE DIP	LOMA SUPPLE	MENT						
7.1. Date and place								
7.2. Name and signature								
7.3. Position of the signatory								
	Directo				ctor			
7.4. Seal	Seal of the	unit		Seal o	f UKIM			

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

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

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





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 студискита 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.

УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОЛИ!" - СКОПЈЕ ИНСТИТУТ За ЗЕМЈОТРЕСНО ИНЖЕНЕРСТВО И ИНЖЕНЕРСКА СЕИЗМОЛОГИЈА-СКОПЈЕ БР. 99 - 881 1



#### Образложение

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





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 студискита 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 1,5 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. 09-962)1 8.06. 20 18 год. СКОПЈЕ



#### Образложение

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





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 студискита 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 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

УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" - СКОПЈЕ

Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 03 - 362 / 2

8.06. 20 / 8 год.

С К О П Ј Е



### Образложение

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



## РЕПУБЛИКА МАКЕДОНИЈА ОДБОР ЗА АКРЕДИТАЦИЈА И ЕВАЛУАЦИЈА Одбор за екредитација 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 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 научноистражувачки 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 МАКЕЛОНИЈА **УНИВЕРЗИТЕТ** "CB. КИРИЛ И МЕТОДИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

1



### Образложение

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



РЕПУБЛИКА МАКЕДОНИЈА Одбор за акредитација и евалуација на високото образование Бр. 1403 - 15215 Сб. об. 201 \$ год.

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 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 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. 20/8 год. СКОПЈЕ



### Образложение

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



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 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. 09-104/3 22.06. 20/8 год. Скопје



### Образложение

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



Lease agreements NONE

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

<u>УП1 Бр. 14-</u> 1326 <u>ЛООЗ : Ю18</u> година СКОПЈЕ РЕПУВЛИКА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09 - 1004/1 19. 09. 20 18 год. С К О П Ј Е

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 контролирал: Снежана Лузевска одобрил: Dr.Agim Rushiti



### РЕПУБЛИКА МАКЕДОНИЈА МИНИСТЕРСТВО ЗА ОБРАЗОВАНИЕ И НАУКА УП1 Бр. 14-1281

<u>УПГБР. 14-1281</u> 22-06. 2016 дина СКОПЈЕ УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИ!" - СКОПЈЕ Институт за земјотресно инженерство и инженерска сеизмологија-Скопје

Бр. 09 - 1131/1 9, 07. 20 12 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 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 в 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 вкредитација 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, изврши 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.

изработил: Биљана Зафировска контролирал: Снежана Лузевска идобрил: Dr.Agim Rushiti МИНИСТЕР Dr. Arber Ademi



РЕПУ ВЛИКА МАКЕДОНИЈА УНИВЕРЗИТЕТ "СВ. КИРИЛ И МЕТОДИЈ" – СКОПЈЕ Институт за земјотресно инженерска секумологија-Скопје

Бр. 09 - 1004/1 19. 09. 20 18 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 се глен 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 вемјотресно 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 в 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 в 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 исполнетна 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 гужба до Управниот суд на Република Македонија, во рок од 30 дена од денот на приемот на ова решение.

МИНИСТЕР Dr. Arbë<del>r Ad</del>emi

— графотил: м-р Викторија Динковска *III*