

Information for students and supervisors for the third cycle – doctoral studies



SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF CIVIL ENGINEERING



Organization, coordination and realization of doctoral studies

- Doctoral School - UKIM
- Doctoral Studies University Board - UKIM
- Study Program Council of Civil Engineering
- Head of the Study Program in Civil Engineering
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Documents that regulates the third cycle – doctoral studies:

- Law on High Education 2018
- Book of Rules on Conditions, Criteria and Rules for the Third Cycle - Doctoral Studies Enrollment and Study at the Ss. Cyril and Methodius University in Skopje, 2020
- Elaborate on Third Cycle - Doctoral Studies Study Program, 2021

Organization, coordination and realization of doctoral studies

Scientific domain: Engineering and Technology

Scientific area: Civil Engineering

 Modules:

- Structures
- Hydrotechnical engineering
- Geotechnical Engineering
- Transport Infrastructure
- Organization, technology and management in construction

Enrollment criteria

- Completed second cycle of studies harmonized with the European Credit Transfer System;
- Completed postgraduate studies according to study programs before introducing the European Credit Transfer System;
- Professional qualification acquired according to the study programs for regulated professions with at least 300 ECTS credits obtained;
- At least 8,00 obtained average grade of all subjects in the previously completed higher education;
- Average grade of at least 8.00 (eight) in first cycle studies and at least 8.00 (eight) in second cycle studies, i.e. at least 8.00 (eight) in integrated studies;
- Knowledge of English, which is proven by a certificate issued by the Faculty of Philology "Blaze Koneski" in Skopje at the University "St. Cyril and Methodius University" in Skopje, for level B2 according to the European Language Framework of the Council of Europe, an international certificate for the same level issued by an official European tester, determined by the Call or diploma for previous education.

Structure of the Study program

- The doctoral studies last minimum **3 years**, maximum **6 years**, that corresponds to **180 ECTS credits**.
- The study program comprises of:
 - organized academic training, which includes research training, advanced and vocational courses (subjects for acquiring generic knowledge and subjects for academic training for acquiring advanced and professional knowledge) - **42 ECTS credits**;
 - independent research project for preparation of doctoral dissertation under mentorship (doctoral project), which contains research work under mentorship and submission of a draft-doctoral project for preparation of doctoral dissertation and is valued at **41 ECTS credits**;
 - international mobility, at least one week, **6 ECTS credits** ;
 - participation in seminars and conferences, **18 ECTS credits**;
 - publishing activity in reference scientific publications and active participation in international gatherings related to the doctoral thesis, **27 ECTS credits**;
 - preparation and public viva of a doctoral thesis based on a doctoral project, **46 ECTS credits**.

Structure of the Study program

Semester	Code	Type of course/ activity	Description of course/ activity	ECTS
First	1.1	Compulsory	Ethics in research work	3
	1.2.	Compulsory	Methodology of research work	3
	1.3.	Optional	Course for acquiring generic knowledge from the University list	6
	1.4.	Optional	Subject of the study program for acquiring advanced knowledge from group A ¹	6
	1.5.	Optional	Subject of the study program for acquiring advanced knowledge from group B (of all modules)	6
	1.6.	Optional	Subject of the study program for acquiring advanced knowledge from group B (of the selected module)	6
			Total	30

Structure of the Study program

Second	2.1.	Optional	Subject of the study program for acquiring advanced knowledge from group B (of the selected module)	6
	2.2.	Optional	Subject of the study program for acquiring advanced knowledge from group B (of the selected module) or C ²	6
	2.3.	Compulsory	Research work under supervision (preparation of a draft-doctoral project)	14
	2.4.	Compulsory	First annual conference	4
			Total	30

Structure of the Study program

Semester	Code	Type of course/ activity	Description of course/ activity	ECTS
Third	3.1.	Compulsory	Draft- doctoral project	27
	3.2.	Compulsory	First doctoral seminar	3
			Total	30
Fourth	4.1.	Compulsory	Preparation of the doctoral dissertation	20
	4.2.	Compulsory	International mobility	6
	4.3.	Compulsory	Second annual conference	4
			Total	30

Structure of the Study program

Fifth	5.1	Compulsory	Activities for publishing two papers in a reference scientific publication	20
	5.2.	Compulsory	Participation in an international event	7
	5.3.	Compulsory	Second doctoral seminar	3
			Total	30
Sixth	6.1.	Compulsory	Third annual conference	4
	6.2.	Compulsory	PhD viva	26
			Total	30

Structure of the Study program

Courses for acquiring generic knowledge and research skills:

Ethics in the scientific research work

Prof. Katerina Zdravkova

Methodology of the scientific research work

Prof. Todorka Samardzioska

Prof. Elena Dumova Jovanoska

http://www.ukim.edu.mk/dokumenti_m/Un-lista-izborni-predmeti-generichki_znaenja.pdf

Structure of the Study program

The education is 30 ECTS and consists of five courses:

- One course of group A, in the field of mathematics and informatics;
- One course of group B, of all modules;
- Three courses of group B, in the selected module. One of this courses can be selected in the narrow research field, offered in the study programme of other faculties at UKIM, some of the remaining universities in Macedonia, as well as the other universities across Europe or the world, which have bilateral agreements for collaboration with UKIM.

Annual conferences (3x4=12ECTS)

- Conferences are held in the second, fourth and sixth semesters and correspond to 4 ECTS credits.
- For the conference in the **second semester**, the student submits: application, short paper that contains an overview of current literature related to research in a specific area serving as solid grounds for doctoral thesis preparation, presentation of written text and provided public presentation.
- - For the conference in the **fourth and sixth semester**, the student submits an application, presentation of the reviewed paper from the seminar in the previous semester and gives a public presentation.

Annual conferences (3x4=12ECTS)

- Evaluation of the presentations at the annual conferences is done by a **three-member committee**, consisting of a member of the Doctoral Studies University Board, the head of the study program and the student's supervisor.
- The student submits **an application form and scientific paper** to the Doctoral Studies University Board for each conference. For the conferences in **fourth and sixth semester**, a **paper review** should be submitted. A **PowerPoint presentation** should be prepared for each conference.

Seminars (2x3=6 ECTS)

The seminars are realized within the study programs, in the **third and in the fifth semester**, and result in the preparation of a thesis by the student. Each seminar is awarded **3 ECTS**.

- For the seminar in **the third semester**, the student submits an application and a written paper of over 5 pages, with an overview of research elements related to the preparation of a project proposal for the doctoral thesis.
- For the seminar **in the fifth semester**, the student submits an application and a written paper of over 10 pages, where he presents elements of the results related to the research and preparation of the doctoral thesis.

International mobility

International mobility is realized on the basis of prior consent of the mentor.

6 ECTS are granted for completed international mobility.

Report on completed international mobility, prepared by the student and approved by the mentor, is part of the student file and is adopted by the Council for Doctoral Studies.

International mobility means **at least one week stay** of a doctoral student at a university or scientific institution abroad during doctoral studies, which is confirmed by a letter, confirmation or other type of proof of residence and performed activities, issued by the host.

Doctoral dissertation topic application

- After completing 60 ECTS credits, of which 42 ECTS credits from the selected subjects, at least 4 ECTS credits from an annual conference and 14 ECTS credits from research work under guidance of the supervisor, the student submits via Study Program Council to the Teaching-Scientific Council the project proposal for preparation of a doctoral thesis. The Teaching-Scientific Council, upon proposal of the Study Program Council, establishes a Commission for assessment of the submitted topic for doctoral dissertation preparation and prepares a report.

Submission of the doctoral dissertation

- The doctoral thesis is an original scientific work, which, according to the methodology of its preparation and the degree of its scientific contribution, is suitable for gaining student independence in future research work.
- The doctoral thesis is written in **Macedonian, or it can be written in English.**
- Thesis Summary is written in **Macedonian and in one of the world languages.**
- The student acquires the right to submit the doctoral thesis under the following conditions:
 - completed **154 ECTS**;
 - published at least **two papers in a referent scientific publication** according to the Law on High Education, as a first author or corresponding author;
- The doctoral thesis is submitted by the student **in seven hard copies and digital version.**

Wishing you a successful PhD studying!

