СОФИЙСКИ УНИВЕРСИТЕТ
„СВ. КЛИМЕНТ ОХРИДСКИ"

SOFIA UNIVERSITY "ST. KLIMENT OHRIDSKI"

FACULTY OF MATHEMATICS AND INFORMATICS

CURRICULUM

Signed by: …....
RECTOR of Sofia University "St. Kliment Ohridski"

Approved by Academic Council:
Protocol № 8 /28.02.2024

Professional field: **4.5 Mathematics**

Doctoral (Ph.D.) Programme: **OPERATIONS RESEARCH**
Letter regarding National Evaluation and Accreditation Agency (NEAA) Decision with:
Ex. № 911 / July 13, 2022
In. № 12-00-122 /July 25, 2022

Doctoral (Ph.D.) programme code:
MI45M0301D (full-time form)
MI45M0302D (part-time form)
MI45M0303D (self-study form)

Educational and scientific degree "**Doctor of Philosophy**"
Form of education: full-time / part-time / self-study
Duration of study: full-time - 3 years / part-time - 4 years / self-study - up to 5 years

I. EDUCATIONAL ACTIVITY

A1. Mandatory educational activities

minimum 60 ECTS credits (full-time and part-time) / 50 ECTS credits (self-study)

Doctoral minima

Activity title	Type	Assessment	ECTS credits	Year
A1.1. Doctoral minimum in the specialty, part I - basic (in the scientific field of the Ph.D. programme)	mandatory	exam	20	first year
A1.2. Doctoral minimum in the specialty, part II - specialized (in the subject of the thesis)	mandatory	exam	30	first or second year
A1.3. Doctoral minimum in foreign language (not required for self-study)	mandatory	exam	10	first year

A2. Additional educational activities

a maximum number of 20 ECTS credits for the entire course of study

Doctoral courses and seminars

Activity title	Type	Assessment		ECTS credits	Year
A2.1. Course in the scientific field of the thesis (related to the scientific content and the topic of the thesis)	elective	exam	5	30	continuous
A2.2. Scientific doctoral seminar	elective	exam	5	30	continuous
A2.3. Doctoral course forming specific research knowledge and competences	elective	exam	5	30	continuous

II. RESEARCH ACTIVITY

minimum number of 100 ECTS (full-time) / 120 ECTS (part-time) / 130 ECTS (self-study) credits

Activity title	ECTS credits	Year

B1. Ph.D. thesis work

B1.1. Preparatory and accompanying activities on the thesis (overview of the literature, etc.)	10 per year	continuous
B1.2. Experimental work on the thesis	10 per year	continuous
B1.3. Internal discussion of the thesis within the duration of the study	30	continuous

B2. Scientific research activity

B2.1. Individual work with the supervisor	10 per year	continuous
B2.2. Participation in a research or educational project	5 per project	continuous
B2.3. Article accepted for publication or published in a scientific journal	75 for publ. in Q1 (Web of Science) / 60 for publ. in Q2 (Web of Science); 45 for publ. in Q3 (Web of Science) / 36 for publ. in Q4 (Web of Science); 30 for publ. in issue with SJR (Scopus) without IF; 18 for publ. without SJR (Scopus) and in issue, referenced in one of the following databases zbMATH (Zentralblatt), MathSciNet, ACM Digital Library, IEEE Xplore and AIS eLibrary.	continuous

B2.4. Publication in non-refereed proceedings of a scientific conference	10 for international / 5 for national	continuous
B2.5. Presented report at a scientific conference	15 for international / 10 for national	continuous
B2.6. Participation with a poster at a scientific conference	5 for international / 2.5 for national	continuous
B2.7. Presented report at a doctoral seminar or other scientific seminar	5	continuous
B2.8. Mobility of Ph.D. students	Credits certified by the mobility host country are recognised under the relevant activity of the individual plan.	continuous

B3. Additional activities

B3.1. Participation in meetings of the departmental council, where issues related to the Ph.D. tesis are considered, for which one must be invited	3 (for the entire period of study)	continuous
B3.2. Carrying out administrative work (participation as an invigilator in conducting exams and etc.)	3 per academic year	continuous
B3.3. Participation in organizing and conducting seminars, meetings, conferences and other initiatives	3 per academic year	continuous
B3.4. Supporting graduates (if necessary)	3 per academic year	continuous

III. PEDAGOGICAL ACTIVITY

maximum number of 20 ECTS credits for the entire study period (only for full-time form)

Activity title	ECTS credits	Year
C1. Preparation of materials and conducting exercises and seminars	5 per 30 classroom hours	continuous
C2. Supervision/evaluation of course projects	1 per course project	continuous
C3. Supervision/review of MSc theses	2.5 per MSc thesis	continuous

Total for the entire course of study: minimum 180 ECTS credits.

On the basis of this curriculum, each PhD student, together with his/her supervisor, prepares an individual study plan, which includes a title page, a general study plan (for the entire study period) and a work plan per year (for each year of study), which must comply with:

1. The regulations on the conditions and procedure for acquiring scientific degrees and holding academic positions at SU

2. Ordinance № 21/2004 on the implementation of a system for accumulation and transfer of credits in higher schools and HEA

3. Instruction for the preparation of individual study plan for a PhD student at the FMI

Ph.D. students are positively evaluated when they have completed at least 75% of the mandatory study (A1) and research activities (B1, B2) for the respective year and when they have accumulated at least 60 ECTS credits (full-time); 45 ECTS credits (part-time) and 36 ECTS credits (self-study).

The Ph.D. student is discharged with the right to defense if, for the entire period of study, the student has completed 100% of the mandatory study activities set in the individual plan, at least 75% of the set mandatory research activities and upon accumulating at least 180 ECTS credits.

A negative evaluation may be the basis for the departmental council to propose to the FC that the PhD student be removed from the PhD programme.

The curriculum was adopted by a decision of the Faculty Council of the Faculty of Mathematics and Informatics with Protocol № 1 / 29.01.2024.

Dean FMI:

Prof. Maya Stoyanova, PhD