

The Study Plan for the Direction of Higher Education:

Mathematics, General Speciality: Pure and Applied Mathematics

Full-time Master's Degree Studies, Academic Profile, **Admission 2018/19**

1st YEAR OF STUDIES:

1st semester:

Name of the course	Course type	O/F	Evaluation	Hours	Credits (ECTS)
Basic Algebraic Topology	W+C	F	E	30+30	6
Approximation Theory	W+C	F	E	30+30	6
Complex Analysis	W+C	O	E	30+30	6
Functional Analysis	W+C	O	E	30+30	6
Theory of Dynamical Systems	W+C	F	E	30+30	6
Optional Seminar 1	S	F	zal	30	0
Optional Seminar 2	S	F	zal	30	0
Safety at Work Training	W	O	zal	4	1
Introduction to the Labor Market 1	K	O	zal	10	0

Contact hours: 374
ECTS: 31

2nd semester:

Name of the course	Course type	O/F	Evaluation	Hours	Credits (ECTS)
Probability Theory	W+C	F	E	30+30	6
Differential Geometry	W+C	F	E	30+30	6
Optional Course 1	W+C	F	E	30+30	6
Optional Seminar 1	S	F	Z	30	6
Optional Seminar 2	S	F	Z	30	6
Introduction to the Labor Market 2	K	O	zal	10	0

Contact hours: 250
ECTS points: 30

Description: W – lecture, C – classes, L – laboratory, S – seminar, K – seminar, E – exam (written or oral), Z – assessed classes, zal – classes without assessment, O – obligatory course for students of mathematics, F – facultative course (obligatory for students of given speciality), *) Master's thesis is separately assessed (by the supervisor and the reviewer).

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2nd YEAR OF STUDIES:

3rd semester

Name of the course	Course type	O/F	Evaluation	Hours	Credits (ECTS)
Risk Theory	W+C	F	E	30+30	6
Stochastic Processes	W+C	F	E	30+30	6
Optional Course 2	W+C	F	E	30+30	6
Lecture from the humanities: History of Mathematics 1	W	O	Z	30	3
Partial Differential Equations	W+C	F	E	30+30	6
Optional Seminar 3	S	F	zal	30	0
Tutorials		O	zal	5	0
Protection of Intellectual Property Rights	W	O	zal	5	1

Contact hours: 310

ECTS points: 28

4th semester

Name of the course	Course type	O/F	Evaluation	Hours	Credits (ECTS)
Optional Course 3	W+C	F	E	30+30	6
Optional Seminar 3	S	F	Z	30	6
Lecture from the humanities: History of Mathematics 2	W	O	Z	30	3
Tutorials		O	zal	5	1
Preparation of the Master's Thesis		O	zal*)		20
Final Exam		O	E		0

Contact hours: 125

ECTS points: 36

Sum of contact hours: 1059

Sum of ECTS points: 125

Description: W – lecture, C – classes, L – laboratory, S – seminar, K – seminar, E – exam (written or oral), Z – assessed classes, zal – classes without assessment, O – obligatory course for students of mathematics, F – facultative course (obligatory for students of given speciality), *) Master's thesis is separately assessed (by the supervisor and the reviewer).