

field of study: **MATEMATYKA**

level first cycle (BA equivalent)

form of studies: full-time studies

speciality: **Financial mathematics**

year of commencement 2017/2018

year	Semestr	Course	Course details							
			Code	Hours				Form of assessment (Grade/Exam)	ECTS	
				lectures	practical courses	laboratory courses	internship, other activities			Total
I	1	Mathematical Analysis and Algebra	<a href="#">AA0LMM</a>		28			28	Grade	2
	1	Logic and Set Theory	<a href="#">LM0LMM</a>	28	28			56	Grade	6
	1	Mathematical Analysis 1	<a href="#">AM1LMM</a>	56	56			112	Grade	10
	1	Linear Algebra with Geometry 1	<a href="#">AG1LMM</a>	42	42			84	Exam	7
	1	Application Software	<a href="#">OU00II</a>			28		28	Grade	2
	1	Capital Market	<a href="#">RK0OMF</a>	28				28	Grade	2
	<b>total in 1 semester:</b>							<b>hours: 336</b>	<b>p. ECTS: 29</b>	
	2	Mathematical Analysis 2	<a href="#">AM2LMM</a>	28	28			56	Exam	7
	2	Linear Algebra with Geometry 2	<a href="#">AG2LMM</a>	42	28			70	Exam	8
	2	Elements of Discrete Mathematics	<a href="#">ED0LMM</a>		28			28	Grade	3
	2	Electives	L*1LOO		60			60	Grade	2
	2	Mathematics of Banking	<a href="#">BM0LFM</a>	28	28			56	Exam	5
	2	Group I course								
	2	Introduction to Insurance	<a href="#">WU0LFM</a>	28				28	Grade	2
<b>total in 2 semester</b>							<b>hours: 298</b>	<b>p. ECTS: 27</b>		
II	3	Mathematical Analysis 3	<a href="#">AM3LMM</a>	28	28			56	Grade	6
	3	Introduction to Topology	<a href="#">TO0LMM</a>	14	28			42	Grade	4
	3	Probability Theory 1	<a href="#">RP1LMM</a>	28	28			56	Exam	5
	3	Computer Aided Calculations	<a href="#">KW0LIM</a>			28		28	Grade	2
	3	Electives	L*2LOO		60			60	Exam	5
	3	Financial Instruments	<a href="#">BO0LFM</a>	28	28			56	Grade	3
	3	Group II course								
	<b>total in 3 semester</b>							<b>hours: 298</b>	<b>p. ECTS: 25</b>	
	4	Mathematical Analysis 4	<a href="#">AM4MMM</a>	28	28			56	Exam	6
	4	Algebra	<a href="#">AL0LMM</a>	28	14			42	Exam	4
	4	Elements of Descriptive Statistics	<a href="#">ES0LMM</a>	14		14		28	Grade	2
	4	Group I course								
	4	Probability Theory 2	<a href="#">RP2LFM</a>	28	28			56	Exam	6
	4	Portfolio Analysis	<a href="#">AP0LMF</a>	28		28		56	Exam	5
4	Pricing in Discrete Market Models	<a href="#">DR0LMF</a>	28	28			56	Grade	5	
<b>total in 4 semester</b>							<b>hours: 294</b>	<b>p. ECTS: 28</b>		
III	5	Bachelor Seminar 1 and Preparation for BAP	\$*1LMM		28			28	Grade	3
	5	Differential Equations	<a href="#">RR0LMM</a>	28	28			56	Exam	6
	5	Intellectual Property Protection	<a href="#">OI0LOO</a>	7				7	Grade	1
	5	Introduction to Stochastic Processes	<a href="#">WP0LFM</a>	28	28			56	Grade	5
	5	Statistics	<a href="#">ST0LFM</a>	28	28			56	Exam	6
	5	Group II course								
	5	Financial engineering	<a href="#">MU0LMF</a>	28		28		56	Exam	5
	<b>total in 5 semester</b>							<b>hours: 259</b>	<b>p. ECTS: 26</b>	
	6	Bachelor Seminar 2 and Preparation for BA	\$*2LMM		28			28	Grade	9
	6	Physical Education	<a href="#">WF0LOO</a>				30	30	Grade	0
	6	Team Project	<a href="#">PZ0LMM</a>		14			14	Grade	2
	6	Apprenticeship	<a href="#">QZ0LOM</a>				120	120	Grade	4
	6	Risk of Financial Investments	<a href="#">RF0OMF</a>	28	28			56	Exam	5
	6	Non-Life Insurance	<a href="#">UM0LSE</a>	28	28			56	Exam	5
6	Electives		min	32			32	Grade/Exam	4	
<b>total in 6 semester</b>							<b>min hours: 336</b>	<b>p. ECTS: 29</b>		
<b>RAZEM W CIĄGU TOKU STUDIÓW :</b>							<b>min hours: 1821</b>	<b>p. ECTS: 164</b>		

Studies programme was accepted by Faculty's Council on 5th of June 2012, with corrects from 3rd of July 2013 and 7th of June 2017.

Group I courses: Macroeconomics (2p. ECTS, 28 hours of lecture, grade), Introduction to Programming (3p. ECTS, 28 hours of laboratory, grade)

Group II courses: Microeconomics (5p. ECTS, 28 hours of lecture, 14 hours of seminar, exam), Foundations of Databases (M) (5p. ECTS, 28 hours of lecture, 28 hours of laboratory, grade)