

Field of study : **MATEMATYKA (MATHEMATICS)**

Profile of study: General academic

degree studies: I (Bachelor degree studies)

Mode of study: Full-time programme

Speciality: **Financial Mathematics**

For a year 2018/2019

YEAR	SEMESTER	COURSES	Course details							Form of assessment	ECTS
			CODE	Hours					Total		
				Lectures	Tutorials / Seminars	Computer labs	Apprenticeship, others				
I	1	Introduction to Mathematics	AA0LEM		28				28	Z	2
	1	Logic and Set Theory	LM0LEM	28	28				56	E	6
	1	Mathematical Analysis 1	AM1LEM	42	42				84	E	8
	1	Linear Algebra with Geometry 1	AG1LEM	42	42				84	E	7
	1	Application Software	ASOENG			28			28	Z	2
	1	Mathematics of Banking	BM0LEM	28	28				56	Z	6
	Semester 1 total:			Hours:					336	p. ECTS:	31
	2	Mathematical Analysis 2	AM2LEM	42	42				84	E	10
	2	Linear Algebra with Geometry 2	AG2LEM	42	28				70	E	8
	2	Elements of Discrete Mathematics	ED0LEM		28				28	Z	3
	2	Introduction to Programming	PO0LEM			28			28	Z	3
	2	Elements of Descriptive Statistics	ES0LEM	14		14			28	Z	2
	2	Introduction to Insurance	WU0LEM	28					28	Z	2
	2	Subject of group I		28					28		2
Semester 2 total:			Hours:					294	p. ECTS:	30	
II	3	Mathematical Analysis 3	AM3LEM	24	28				52	Z	6
	3	Probability Theory 1	RP1LEM	34	28				62	E	5
	3	Computer Aided Calculations (M)	KW0LEM			28			28	Z	2
	3	Financial Instruments	IF0LEM	14	28				42	Z	4
	3	Subject of group II		7					7	Z	1
	3	Subject of group III			42				42	Z/E	4
	3	Subject of group IV		min	42				42	Z/E	5
	3	Electives		min	16				16	Z	4
	Semester 3 total:			Hours (min):					275	p. ECTS:	31
	4	Mathematical Analysis 4	AM4LEM	28	28				56	E	6
4	Differential Equations	RR0LEM	28	28				56	E	6	
4	Probability Theory 2	RP2LEM	28	28				56	E	6	
4	Portfolio Analysis	AP0LEM	28		28			56	E	5	
4	Pricing in Discrete Market Models	DR0LEM	28	28				56	Z	5	
4	Subject of group I		28					28	Z	2	
4	Physical Education	WF0LOO				30		30	Z	0	
Semester 4 total:			Hours (min):					308	p. ECTS:	30	
III	5	Bachelor Seminar 1 and Preparation for B	\$*1LMM		28				28	Z	3
	5	Introduction to Stochastic Processes	WP0LEM	28	28				56	Z	5
	5	Statistics	ST0LEM	28	28				56	E	6
	5	Financial engineering	FE0LEM	28		28			56		5
	3	Subject of group II		7					7	Z	1
	3	Subject of group III			42				42	Z/E	4
	3	Subject of group IV		min	42				42	Z/E	5
Semester 5 total:			Hours (min):					287	p. ECTS:	29	
IV	6	Bachelor Seminar 2 and Preparation for BA			28				28	Z	9
	6	Team Project	PZ0LEM		14				14	Z	2
	6	Apprenticeship	QZ0LEM				120		120	Z	4
	6	Risk of Financial Investments	RF00LEM	28	28				56	E	5
	6	Non-Life Insurance	UM0LEM	28	28				56	E	5
	6	Electives		min	24				24	Z/E	6
	Semester 6 total:			Hours (min):					298	p. ECTS:	31
TOTAL THROUGHOUT THE STUDIES:			Hours (min):					1821	p. ECTS:	182	

SUBJECT GROUPS

GROUP	SEMESTER	COURSES	Course details							Form of assessment	ECTS
			CODE	Hours					Total		
				Lectures	Tutorials / Seminars	Computer labs	Apprenticeship, others				
I	2 / 4	Capital Market	RK0LEM	28					28	Z	2
	2 / 4	Macroeconomics	MK0LEM	28					28	Z	2
II	3 / 5	Intellectual Property Protection	OI0LEM	7					7	Z	1
	3 / 5	Fundamentals of Entrepreneurship	AL0LEM	7					7	Z	1
III	3 / 5	Algebra	PP0LEM	28	14				42	E	4
	3 / 5	Introduction to Topology	TO0LEM	14	28				42	Z	4
IV	3 / 5	Foundations of Databases (M)	BD0LEM	28		28			56	Z	5
	3 / 5	Microeconomics	MI0LEM	28	14				42	E	5