

No.	COURSE NAME	Hours per semester	ECTS	Form of assignment	SEMESTER 1				SEMESTER 2				SEMESTER 3				SEMESTER 4					
					Form of classes				Form of classes				Form of classes				Form of classes					
					L	C	La	P	S	Pra	ECTS	L	C	La	P	S	Pra	ECTS	L	C	La	P
1	English 1	30	2	O																		
2	English 2	30	2	E																		
3	Functional Analysis	60	6	EO						30	30											
4	Real and Complex Analysis	60	7	EO	30	30																
5	Topology	60	7	EO	30	30																
6	Differential Geometry	60	7	EO	30	30																
7	Discrete Mathematics and Mathematical Foundations of Computer Science	60	7	EO	30	30																
8	Partial Differential Equations	90	10	EOO													30	30	30			EOO 10
9	Diploma Seminar 1	30	3	O																		
10	Diploma Seminar 2	60	6	O												60						
11	Diploma Seminar 3	60	9	Z															60			Z 9
1	Combinatorial Analysis	60	5	OO						30	30											
2	Data Warehouse	45	5	OO						15	30											
3	Specialist Laboratory Class	30	3	O														30				O 3
4	Algorithmical Methods	45	6	EO										15	30							
5	Specialist Seminar 1	30	2	O																		
6	Specialist Seminar 2	30	2	O												30						
7	Specialist Seminar 3	30	2	Z														30				Z 2
8	Topics in Discrete Mathematics 1	60	7	EO						30	30											
9	Topics in Discrete Mathematics 2	60	7	EO										30	30							
10	Monographic Lecture	30	4	E										30								E 4
1	Operations Research	45	6	EO										15	30							EO 6
2	Econometrics	90	8	OOO										30	30	30						OOO 8
3	Mathematical Economics 2	60	7	EO						30	30											
4	Mathematical Programming	90	10	EOO						30	30	30										
5	Specialist Seminar 1	30	2	O								30										
6	Specialist Seminar 2	30	2	O												30						
7	Specialist Seminar 3	30	2	Z														30				Z 2
8	Game Theory in Economics	45	6	EO										30	15							EO 6
1	Financial Engineering	60	8	EOO										30	15	15						EOO 8
2	Actuarial Methods	60	7	EO						30	30											
3	Stochastic Processes 1	60	7	EO						30	30											
4	Stochastic Processes 2	60	7	EO										30	30							EO 7
5	Specialist Seminar 1	30	2	O								30										
6	Specialist Seminar 2	30	2	O												30						
7	Specialist Seminar 3	30	2	Z														30				Z 2
8	Time Series	90	8	OOO														30	30	30		OOO 8
1	Qualitative Theory of Differential Equations	60	8	EOO										30	15	15						EOO 8
2	Stochastic Processes 1	60	7	EO						30	30											
3	Specialist Seminar 1	30	2	O								30										
4	Specialist Seminar 2	30	2	O												30						
5	Specialist Seminar 3	30	2	Z														30				Z 2
6	Control Theory 1	60	7	EO						30	30											
7	Control Theory 2	60	7	EO										30	30							EO 7
8	Selected Problems of Mathematical Modelling	90	8	OOO										30	30	30						OOO 8

Compulsory subjects module (general, basic and course)	600	66	7 E	270	4 E	30	120	2 E	11	60	0 E	6	150	1 E	19
Specialty - Mathematical Computer Science	420	43	4 E	0	0 E	0	195	1 E	19	165	3 E	19	60	0 E	5
Specialty - Mathematics and Computer Science in Economics	420	43	4 E	0	0 E	0	180	2 E	19	210	2 E	22	30	0 E	2
Specialty - Mathematics and Computer Science in Finance and Insurance	420	43	4 E	0	0 E	0	150	2 E	16	150	2 E	17	120	0 E	10
Specialty - Mathematical Modelling	420	43	4 E	0	0 E	0	150	2 E	16	240	2 E	25	30	0 E	2
<b>Total (specialty - Mathematical Computer Science)</b>	<b>1020</b>	<b>109</b>	<b>11 E</b>	<b>270</b>	<b>4 E</b>	<b>30</b>	<b>315</b>	<b>3 E</b>	<b>39</b>	<b>225</b>	<b>3 E</b>	<b>25</b>	<b>210</b>	<b>1 E</b>	<b>24</b>
<b>Total (specialty - Mathematics and Computer Science in Economics)</b>	<b>1020</b>	<b>109</b>	<b>11 E</b>	<b>270</b>	<b>4 E</b>	<b>30</b>	<b>300</b>	<b>4 E</b>	<b>39</b>	<b>270</b>	<b>2 E</b>	<b>28</b>	<b>180</b>	<b>1 E</b>	<b>21</b>
<b>Total (specialty - Mathematics and Computer Science in Finance and Insurance)</b>	<b>1020</b>	<b>109</b>	<b>11 E</b>	<b>270</b>	<b>4 E</b>	<b>30</b>	<b>270</b>	<b>4 E</b>	<b>27</b>	<b>210</b>	<b>2 E</b>	<b>23</b>	<b>270</b>	<b>1 E</b>	<b>29</b>
<b>Total (specialty - Mathematical Modelling)</b>	<b>1020</b>	<b>109</b>	<b>11 E</b>	<b>270</b>	<b>4 E</b>	<b>30</b>	<b>270</b>	<b>4 E</b>	<b>27</b>	<b>300</b>	<b>2 E</b>	<b>31</b>	<b>180</b>	<b>1 E</b>	<b>21</b>

Total without practices 1020 109

Additional subjects offered for degree course: MATHEMATICS

No.	COURSE NAME	Hours per semester	ECTS	Form of assignment	SEMESTER 1				SEMESTER 2				SEMESTER 3				SEMESTER 4					
					Form of classes				Form of classes				Form of classes				Form of classes					
					L	C	La	P	S	Pra	ECTS	L	C	La	P	S	Pra	ECTS	L	C	La	P
1	Combinatorial Analysis	30	3	OO																		OO 5
2	Web Applications and PHP Applications	30	3	OO																		OO 4
3	Operations Research	45	6	EO						15	30											EO 6
4	Econometrics	90	8	OOO						30	30	30										OOO 8
5	Mathematical Economics 2	60	7	EO						30	30											EO 7
6	History of Mathematics	30	3	OO																		OO 4
7	Data Warehouse	45	5	OO						15	30											OO 5
8	Financial Engineering	60	8	EOO						30	15	15										EOO 8
9	Qualitative Theory of Differential Equations	60	8	EOO						30	15	15										EOO 8
10	Computer Image Processing	30	3	OO						15	15											OO 4
11	Specialist Laboratory Class	30	3	O																		O 3
12	LaTeX	30	3	O																		O 3
13	Actuarial Methods	60	7	EO						30	30											EO 7
14	Algorithmical Methods	45	6	EO						15	30											EO 6
15	Numerical Methods 2	90	10	EOO						30	30	30										EOO 10
16	Mathematical Modelling 1	30	3	EO						30	30											EO 7
17	Mathematical Modelling 2	30	3	EO																		EO 7
18	Modelling in Finance 2	30	3	EO						30	30											EO 6
19	Mathematical Workshop 2	30	3	O																		O 5
20	Stochastic Processes 1	60	7	EO						30	30											EO 7
21	Stochastic Processes 2	60	7	EO										30	30							EO 7
22	Quantum Computing	30	3	OO																		OO 5
23	Mathematical Programming	90	10	EOO						30	30	30										EOO 10
24	Specialist Seminar 1	30	2	O																		O 2
25	Specialist Seminar 2	30	2	O										30								O 2
26	Specialist Seminar 3	30	2	Z														30				Z 2
27	Computer Networks	60	7	EO						30	30											EO 5
28	Time Series	90	8	OOO										30	30	30						OOO 8
29	Game Theory in Economics	45	6	EO						30	15											EO 6
30	Control Theory 1	60	7	EO						30	30											EO 7
31	Control Theory 2	60	7	EO										30	30							EO 7
32	Selected Problems of Mathematical Modelling	90	8	OOO																		