

UNIVERSITY OF RUSE "ANGEL KANCHEV"

75 years facing knowledge, youth and future

DRC

7004 Ruse, 8 Studentska Str. http://www.uni-ruse.bg



Courses in English

(face-to-face and online education)

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Master Studies in Informatics	
Master Studies in Mathematical Modelling	
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Mathematics and Informatics Education	
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Master Studies in Software Engineering

Winter semester, 2021 / 2022 academic vear				Summer semester, 2021 / 2022 academic vear			
	, <u>,</u> <u>,</u>	FIRS	Г	YEAR			
Code	Course name	ECTS		Code	Course name	ECTS	
SM13427	Object Oriented	6		SM13432	Programming of Web-	6	
	Programming				components		
SM13428	Databases	6		SM13433	Implementation of Software	6	
					Systems		
SM13429	Design of Software	6		SM13434	IT Projects Management	6	
	Systems						
SM13430	Computer Systems and	5		SM13435	Instrumental Environments	5	
	Networks						
SM13431	Workshop 1	7		SM13436	Workshop 2	7	
	·	SECON	JI	YEAR	•		
SM13437	Workshop 3	15					

Master Studies in Informatics

Winter semester, 2021 / 2022 academic year				Summer semester, 2021 / 2022 academic year				
		FIRST	'Y	EAR				
Code	Course name	ECTS		Code	Course name	ECTS		
SM13439	Modern Software	5		SM13445	Management and Analysis	4		
	Engineering				of Computer Networks			
SM13440	Object-oriented and	6		SM13446	Programming in Network	4		
	Distributed Databases (DBs)				Environment and Data			
					Security			
SM13441	Digital Image Processing	5		SM13447	Modern Internet	4		
					Technologies			
SM13442	Operations Research	5		SM13448	Workshop 2	3		
SM13443	Multi-agent and Artificial	5						
	Intelligence Systems							
SM13444	Workshop 1	4	1					
	_							

Master Studies in Mathematical Modelling

	Winter semester,				Summer semester,	
2	2021 / 2022 academic year			20	21 / 2022 academic yea	ar
-	,	FIRST	Y	EAR	, ,	
Code	Course name	ECTS		Code	Course name	ECTS
S02001	Ordinary Differential	6		S03796	Partial Differential	6
	Equations				Equations	
SM15733	Numerical Analysis	6		SM15734	Numerical Methods for	6
					Differential Equations	
					with MATLAB	
S00370	Variational Methods and	6		SM15735	Finite Element Methods	6
	Optimization			510115755	with MATLAB	0
S00369	Applied Functional Analysis	6				
	Elective courses				Elective courses	
(stu	lents elect a course from each gr	oup)			(students elect a course)	1
S00364	Introduction to Financial	6		S00360	Differential Models in	6
	Mathematics				Financial Mathematics	
S00365	Analytical Dynamics with	6		S00373	Mechanics of Continuous	6
	Matlab				Media	
					Elective courses	
				500374	(students elect a course)	
				500574	Differential Equations	6
				SM15736	Difference Schemes for	6
				51110750	Interface Problems	0
	C 1	ECONI	.	VEAD	Interface I foblems	
S00276	Markshan		ر ا	ILAN		
300370	Flactize courses	3				
	(students elect) courses from					
	Module A or Module B)					
	Module A					
	(Technical Modelling)					
S00378	Nonlinear Vibrations of	6				
	Mechanical Systems					
S00390	Numerical Simulations of	6				
	Semiconductor Devices					
SM13975	Mathematical Models in	6				
	Hydromechanics					
	Module B					
000.155	(Economic Modelling)					
500425	Financial Mathematics	6				
SM15737	Mathematical Theory of Risk	6				
SM15738	Credit Risk	6				

Master Studies in Informatics and Information Technologies in Education

Wi	nter semester, 2021 / 202	2		Summer semester, 2021 / 2022			
	academic year		academic year				
		FIRST	' Y	EAR			
Code	Course name	ECTS		Code	Course name	ECTS	
SM13295	Information Technologies	4		SM13453	Discrete Mathematics	4	
SM13450	Introduction to	5		SM13300	Computer Graphics	5	
	Programming			C) (1000)		_	
SM13451	Methods of Teaching	6		SM13306	Multimedia Systems and	5	
	Informatics and Information				Technologies in		
	Technologies				Education		
SM13303	Databases and Information Systems	5		SM13305	Programming in Internet	5	
SM13301	Computer Systems and	5		SM13299	Object Oriented	5	
	Internet				Programming		
SM13298	Operating Systems	5					
	S	ECON	D	YEAR			
SM13455	Data Structures	5					
	Elective courses			Elective courses			
	(students elect a course)				(students elect a course)		
	Group 1						
SM13312	Desktop Publishing	3					
SM13313	Software Engineering	3					
SM13314	Extracurricular Studies in	3					
	Informatics and IT						
	Group 2						
SM13316	Web Design	5					
SM13317	Visual Programming	5					

Master Studies in Mathematical Modelling in the Finance, Insurance and Social Work

(for graduates holding a BA degree in the Professional Field 4.5. MATEMATICS)

Winter semester, 2021 / 2022				Summer semester, 2021 / 2022			
FIRST V			YF	AR			
Code	Course name	ECTS		Code	Course name	ECTS	
SM13773	Financial Mathematics*	5		SM13780	Modelling in Finance*	3	
SM13774	Insurance Mathematics*	5		SM13781	Modelling in Insurance*	3	

* Individual tuition (in the form of consultations) in English

Master Studies in Mathematical Modelling in the Finance, Insurance and Social Work

(for graduates holding a BA degree in the following Professional Fields: Natural Sciences, Mathematics and Informatics, and also similar disciplines, related to Finance, Accounting, Financial Analysis, Control and Audit, Insurance, Economics, Statistics, Econometrics, Business-informatics)

Winter semester, 2021 / 2022 academic year				202	Summer semester, 21 / 2022 academic ye	ar
	I	IRST	YE	AR		
Code	Course name	ECTS		Code	Course name	ECTS
SM13786	Introduction to the Financial	5		CM12772	Einancial Mathematics*	5
	Mathematics*			51113773	Financial Matternatics	5
SM13787	Differential Equations*	5		SM13774	Insurance Mathematics*	5
SM13788	Statistics*	5				
SM13789	Numerical Methods with	5				
	MATLAB*					
SM133790	Operations Research*	5				
	SE	CONI))	(EAR		
Code	Course name	ECTS		Code	Course name	ECTS
SM13780	Modelling in Finance*	3				
SM13781	Modelling in Insurance*	3				

* Individual tuition (in the form of consultations) in English

Master Studies in Linguistics and Didactics for Primary School Teachers of English

	Winter semester,			Summer semester,		
20)21 / 2022 academic year	I		202	21 / 2022 academic y	ear
		FIRST	'Y	EAR		
Code	Course name	ECTS		Code	Course name	ECTS
SM13212	English Phonetics and Lexicology	3		SM13219	English Morphology and Syntax	4
SM15676	Area Studies of Britain and the USA	3		SM15677	English and American Children's Literature	3
SM14688	Methods of Instruction of English to Primary School Pupils	8		SM13244	Methods of Intercultural Education at Primary School Level	3
SM13216	Lesson Observation	2		SM13221	Practical English Language - Part 2	12
				SM14691	Teaching Practice in English Language	4
	Elective courses (students elect a course)				<i>Elective courses</i> (students elect a course)	
SM13217	Practical English Language – Part 1 (for students with either B1 or B2 level of English)	12		SM13224	Management of Educational Projects	4
SM13218	Practical English Language – Part 1 (for students with either A1 or A2 level of English)	12				
	S	ECON	D	YEAR		
SM13249	Linguistic Aspects of Acquisition of English by Primary School Pupils	2				
SM13250	Interactive and Multimedia Technologies in the Teaching of English to Primary School Pupils	2				
SM13228	Practical English Language – Part 3	5				
SM14692	Pre-diploma Pedagogical Practice in English Language	5				

Master Studies in Linguistics and Didactics for Lowersecondary School Teachers of English

Winter semester,] [Summer semester,				
	2021 / 2022 academic yea	r		2021 / 2022 academic year			
		FIRST	YE	AR			
Code	Course name	ECTS		Code	Course name	ECTS	
SM13212	English Phonetics and Lexicology	3		SM13219	English Morphology and Syntax	4	
SM15676	Area Studies of Britain and the USA	3		SM15677	English and American Child and Young Adult Literature	3	
SM14688	Methods of Instruction of English to Lower Secondary School Pupils	8		SM13223	Intercultural and Language Training	3	
SM13216	Lesson Observation	2		SM13221	Practical English Language - Part 2	12	
				SM14691	Teaching Practice in English Language	4	
	Elective courses (students elect a course)				Elective courses (students elect a course)		
SM13217	Practical English Language – Part 1 (for students with either B1 or B2 level of English)	12		SM13224	Management of Educational Projects	4	
SM13218	Practical English Language – Part 1 (for students with either A1 or A2 level of English)	12					
	S	ECONI))	(EAR			
SM14693	Linguistic Aspects of Acquisition of English by Lower Secondary School Pupils	2					
SM13227	Interactive and Multimedia Technologies in English Language Lower Secondary School Education	2					
SM13228	Practical English Language – Part 3	5					
SM14692	Pre-diploma Pedagogical Practice in English Language	5					