

Approved by
 RECTOR:
 (Prof. Dr. Zapryan KOZLUDZHOV)
 Academic Council Minutes No 18/24.04.2017

CURRICULUM

Area of higher education: **PEDAGOGICAL SCIENCES (1)**
 Professional stream: **PEDAGOGY OF TEACHING ... (1.3)**
 Degree programme: **INFORMATION TECHNOLOGY, MATHEMATICS AND EDUCATIONAL MANAGEMENT**
 Educational and qualification degree: **BACHELOR**
 Professional qualification: **TEACHER OF MATHEMATICS, INFORMATICS AND INFORMATION TECHNOLOGY**
 Mode of study: **FULL-TIME**
 Official length of programme: **4 YEARS**
 Dean of FMI: (Prof. Dr. Anton Iliev)
 Faculty Council Minutes No 17/19.04.2017

Course	CH	L	LwS	Sw	LB	LBw	SS	SSw	C	T	A	Y	T	R	Tn
FIRST ACADEMIC YEAR	620	240	24	26	26	12	12	118	180	060					
Autumn trimester	200	90	9	50	5	60	6	400	600	20					
Linear Algebra	60	30	3	30	3	0	0	120	180	6	Ex	1	A	1	
Programming	60	30	3	0	0	30	3	150	210	7	Ex	1	A	1	
Information Technology	60	30	3	0	0	30	3	120	180	6	Ex	1	A	1	
Sport	20	0	0	20	2	0	0	10	30	1	-	1	A	1	
Winter trimester	230	90	9	110	11	30	3	430	660	22					
Mathematical Analysis 1	50	30	3	20	2	0	0	100	150	5	Ex	1	W	2	
Analytical Geometry	60	30	3	30	3	0	0	120	180	6	Ex	1	W	2	
English	40	0	0	40	4	0	0	80	120	4	-	1	W	2	
Introduction to Web Programming	60	30	3	0	0	30	3	120	180	6	Ex	1	W	2	
Sport	20	0	0	20	2	0	0	10	30	1	-	1	W	2	
Spring trimester	190	60	6	100	10	30	3	350	540	18					
Mathematical Analysis 2	50	30	3	20	2	0	0	100	150	5	Ex	1	S	3	
Object-Oriented Programming	60	30	3	0	0	30	3	120	180	6	Ex	1	S	3	
English	60	0	0	60	6	0	0	120	180	6	CA	1	S	3	
Sport	20	0	0	20	2	0	0	10	30	1	CA	1	S	3	
SECOND ACADEMIC YEAR	650	380	36	250	25	100	10	1150	1800	060					
Autumn trimester	200	120	12	90	9	30	3	400	600	20					
Algebra	60	30	3	30	3	0	0	120	180	6	Ex	2	A	4	
Differential Equations	40	20	2	20	2	0	0	80	120	4	CA	2	A	4	
Algorithms and Data Structures	60	30	3	0	0	30	3	120	180	6	Ex	2	A	4	
Electives or Practicals No1	40	40	4	0	0	0	0	80	120	4	CA	2	A	4	
Winter trimester	230	120	12	70	7	40	4	370	600	20					

Geometry	60	30	3	30	3	0	0	90	150	5	Ex 2	W 5
Probability Theory and Mathematical Statistics	60	30	3	20	2	10	1	90	150	5	Ex 2	W 5
Web Design	60	30	3	0	0	30	3	90	150	5	CA3	W 5
Introduction to Educational Management	50	30	3	20	2	0	0	100	150	5	Ex 2	W 5
Spring trimester	220	140	12	90	9	30	3	380	600	20		
Psychology	60	40	2	20	2	0	0	120	180	6	Ex 2	S 6
Discrete Mathematics	60	30	3	30	3	0	0	90	150	5	Ex 2	S 6
Operating Systems	60	30	3	0	0	30	3	90	150	5	Ex 2	S 6
Electives or Practicals No2	40	40	4	0	0	0	0	80	120	4	CA2	S 6
		0	0	40	4	0	0					
THIRD ACADEMIC YEAR	670	450	45	240	24	100	10	1400	2070	69		
Autumn trimester	200	140	14	70	7	30	3	400	600	20		
Information Technology in Education	50	30	3	0	0	20	2	100	150	5	Ex 3	A 7
Numerical Methods	50	30	3	10	1	10	1	100	150	5	Ex 3	A 7
Pedagogy	60	40	4	20	2	0	0	120	180	6	Ex 3	A 7
Mandatory Elective or Practical No1 of Group B	40	40	4	0	0	0	0	80	120	4	CA3	A 7
		0	0	40	4	0	0					
Winter trimester	210	140	14	80	8	30	3	480	690	23		
School Course in Algebra	50	30	3	20	2	0	0	100	150	5	Ex 3	W 8
School Course in Analysis	50	30	3	20	2	0	0	100	150	5	Ex 3	W 8
Methods of Teaching Informatics and Information Technology	40	20	2	0	0	20	2	110	150	5	CA3	W 8
Financial Management in the Schools	30	20	2	0	0	10	1	90	120	4	Ex 3	W 8
Mandatory Elective or Practical No2 of Group B	40	40	4	0	0	0	0	80	120	4	CA3	W 8
		0	0	40	4	0	0					
Spring trimester	260	170	17	90	9	40	4	520	780	26		
Methods of Teaching Mathematics	50	30	3	20	2	0	0	100	150	5	Ex 3	S 9
Databases	60	30	3	0	0	30	3	120	180	6	Ex 3	S 9
School Course in Geometry	50	30	3	20	2	0	0	100	150	5	Ex 3	S 9
Human Resource Management in the Schools	30	20	2	10	1	0	0	60	90	3	CA3	S 9
Planning and Optimising the Learning Process	30	20	2	0	0	10	1	60	90	3	Ex 3	S 9
Mandatory Elective or Practical No1 of Group A	40	40	4	0	0	0	0	80	120	4	CA3	S 9
		0	0	40	4	0	0					
FOURTH ACADEMIC YEAR	540	220	22	40	4	320	32	1710	2250	75		
Autumn trimester	220	110	11	0	0	110	11	440	660	22		
Computer Graphics and Presentations	30	20	2	0	0	10	1	60	90	3	Ex 4	A 10
Electronic School (e-School)	30	20	2	0	0	10	1	60	90	3	Ex 4	A 10
Project Management and Participation in Educational Programmes	20	20	2	0	0	0	0	40	60	2	CA4	A 10
Integrated Practicum in Mathematics	30	0	0	0	0	30	3	60	90	3	CA4	A 10
Inclusive Education	20	20	2	0	0	0	0	40	60	2	CA4	A 10
Lesson Observation in Mathematics	20	0	0	0	0	20	2	40	60	2	CA4	A 10
Lesson Observation in	20	0	0	0	0	20	2	40	60	2	CA4	A 10

Informatics and Information Technology													
School Informatics	50	30	3	0	0	20	2	100	150	5	Ex	4	A 10
Winter trimester	210	90	9	40	4	120	12	480	690	23			
Information and Communication Technologies in Teaching and Working in a Digital Environment													
Practice Teaching in Mathematics	30	0	0	0	0	30	3	90	120	4	CA4	W	11
Practice Teaching of Informatics and Information Technology	30	0	0	0	0	30	3	90	120	4	CA4	W	11
Integrated Practicum in Informatics and Information Technology	30	0	0	0	0	30	3	60	90	3	CA4	W	11
School Course in Information Technology	50	30	3	0	0	20	2	100	150	5	Ex	4	W 11
Mandatory Elective or Practical No2 of Group A	40	40	4	0	0	0	0	80	120	4	CA4	W	11
Spring trimester	110	20	2	0	0	90	9	790	900	30			
Pre-Service Teaching of Mathematics	45	0	0	0	0	45	4.5	45	90	3	CA4	S	12
Pre-Service Teaching of Informatics and Information Technology	45	0	0	0	0	45	4.5	45	90	3	CA4	S	12
Preparation for and Taking the Practical and Applied State Examination	0	0	0	0	0	0	0	300	300	10	Ex	4	S 12
Overview Lectures in Mathematics, Informatics and Information Technology	20	20	2	0	0	0	0				4	S	12
Preparation for and Taking the State Examination or Development and Defence of a Thesis Paper	0	0	0	0	0	0	0	400	420	14	Ex	4	S 12
TOTAL	2480	1290	127	79	079	640	64	5440	7920	264			

KEY:

CH – contact hours; L – lectures; Lw – lectures per week; Se – seminars; Sw – seminars per week; LB - labs; LBw - labs per week; SS – self-study; T – total; C – ECTS credits; TA – type of assessment; AY – academic year; Tr – trimester; Tn – trimester number; Ex – exam; CA – continuous assessment; A – Autumn, W – Winter, S – Spring