

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

CURRICULUM

Area of higher education: **NATURAL SCIENCES, MATHEMATICS AND INFORMATICS (4)**

Professional stream: **INFORMATICS AND COMPUTER SCIENCE (4.6)**

Degree programme: **SOFTWARE TECHNOLOGY WITH SPECIALIZATION IN GRAPHICAL ENVIRONMENTS AND USER INTERFACES - 2 years**

Educational and qualification degree: **MASTER**

Professional qualification: **INFORMATICIAN**

Mode of study: **FULL-TIME**

Official length of programme: **2 YEARS**

Dean of FMI:
 (Prof. Dr. Anton Iliev)
 Faculty Council Minutes No 17/19.04.2017

CURRICULUM DETAILS:

Course	CHL	Lw	S	Sw	LB	Lw	SS	T	C	TA	AY	TR	Tn
FIRST ACADEMIC YEAR	300	114	1.4	0	0	68	6.8	488	600	20			
Autumn trimester	112	44	4.4	0	0	68	6.8	488	600	20			
Operating Systems	28	16	1.6	0	0	12	1.2	152	180	6	Ex 1	A	1
Data Structures and Programming	42	14	1.4	0	0	28	2.8	168	210	7	Ex 1	A	1
Object-Oriented Programming	42	14	1.4	0	0	28	2.8	168	210	7	Ex 1	A	1
Winter trimester	98	28	2.8	141	456	5.6	502	600	20				
Databases	42	14	1.4	0	0	28	2.8	168	210	7	Ex 1	W	2
Discrete Mathematics	28	14	1.4	141	40	0	182	210	7	Ex 1	W	2	
Practicals in Java	28	0	0	0	0	28	2.8	152	180	6	CA1	W	2
Spring trimester	90	42	4.2	0	0	48	4.8	510	600	20			
Artificial intelligence	30	14	1.4	0	0	16	1.6	180	210	7	Ex 1	S	3
Software technology	30	14	1.4	0	0	16	1.6	180	210	7	Ex 1	S	3
Computer Networks and Communications	30	14	1.4	0	0	16	1.6	150	180	6	Ex 1	S	3
SECOND ACADEMIC YEAR	310	180	18	0	0	130	13	1490	1800	60			
Autumn trimester	150	60	6	0	0	90	9	450	600	20			
Web Programming Languages and Environments	40	20	2	0	0	20	2	110	150	5	Ex 2	A	1
Integrating Databases into a Web Environment	40	20	2	0	0	20	2	110	150	5	Ex 2	A	1
Programming with Patterns and Frameworks	40	20	2	0	0	20	2	110	150	5	Ex 2	A	1

Practicals	30	0	0	0	0	30	3	120	150	5	CA2	A	1
Winter trimester	90	70	7	0	0	20	2	330	420	14			
Single-Page Applications	20	20	2	0	0	0	0	70	90	3	Ex 2	W	2
Hybrid Applications	20	20	2	0	0	0	0	70	90	3	Ex 2	W	2
Elective No 1	30	30	3	0	0	0	0	90	120	4	CA2	W	2
Practicals in Real-Life Projects No 1	20	0	0	0	0	20	2	100	120	4	CA2	W	2
Spring trimester	70	50	5	0	0	20	2	710	780	26			
2D and 3D Game Development	20	20	2	0	0	0	0	70	90	3	Ex 2	S	3
Elective No 2	30	30	3	0	0	0	0	90	120	4	CA2	S	3
Practicals in Real-Life Projects No 2	20	0	0	0	0	20	2	100	120	4	CA2	S	3
Development and Defence of a Thesis Paper or Preparation for and Taking the State Examination	0	0	0	0	0	0	0	450	450	15	Ex 2	S	3
TOTAL	610	294	29.4141.430	230.2	2990	3600	120						

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