Approved by RECTOR:

(Prof. Dr. Zapryan Kozludzhov)

Academic Council Minutes No 18/24.04.2017

## **CURRICULUM**

Area of higher NATURAL SCIENCES, MATHEMATICS AND

education **INFORMATICS (4)** 

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

stream: SOFTWARE TECHNOLOGY WITH SPECIALIZATION

Degree IN SOFTWARE ARCHITECTURES AND TOOLS - 2

programme: years

Educational and **MASTER** 

qualification degree:

Professional **INFORMATICIAN** qualification:

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	Sv	vLB	LBv	vSS	T	C	TAA	YTF	RTn
FIRST ACADEMIC YEAR	30011	411.	414	41.4	4172	217.2	1500	01800	060			
Autumn trimester	11244	4.4	0	0	<i>68</i>	<i>6.8</i>	<i>488</i>	<i>600</i>	<i>20</i>			
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	14	41.4	456	<i>5.6</i>	<i>502</i>	<i>600</i>	<i>20</i>			
Databases	42 14	1.4	0	0	28	2.8	168	210	7	Ex 1	W	2
Discrete Mathematics	28 14	1.4	14	41.4	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	<i>4.2</i>	0	0	<i>48</i>	<i>4.8</i>	<i>510</i>	<i>600</i>	<i>20</i>			
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	31018	018	0	0	130	)13	1490	01800	060			
Autumn trimester	15060	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	<i>20</i>	2	<i>330</i>	<i>420</i>	<i>14</i>			

Service-Oriented Architectures Quality and Testable Code Elective No 1	20	20 20 30	2	0	0 0 0		0 0 0	70 70 90	90 90 120	3 3 4	Ex 2 Ex 2 CA2	W W 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	<i>780</i>	26			
Software Tools	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	61029429.4141.430230.2 29903600120												

## 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