Faculty of Mathematics and Informatics - Software Technology with Specialization in Mobile Systems and Applications

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 MOBILE SYSTEMS AND APPLICATIONS - 2 years**
Educational and qualification degree:	**MASTER**
Professional qualification:	**INFORMATICIAN**
Mode of study:	**FULL-TIME**
Official length of programme:	**2 YEARS**

CURRICULUM DETAILS:

Course	CHL	L	Lw	S	Sw	LB	LBw	SS	T	C	TA	AY	TR	Tn
FIRST ACADEMIC YEAR	300	114	11.4	14	1.4	172	17.2	1500	1800	60				
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	14	1.4	56	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	14	1.4	0	0	182	210	7	Ex	1	W	2
Practicals in Java	28	0	0	0	0	28	2.8	152	180	6	CA	1	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	CA	2	A	1
Winter trimester	90	70	7	0	0	20	2	330	420	14				

Course	CH	L	Lw	Se	Sw	LB	LBw	SS	T	C	TA	AY	Tr	Tn
Android IDE and Framework	20	20	2	0	0	0	0	70	90	3	Ex	2	W	2
Android - Databases and RESTful services	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	CA	2	W	2
Practicals in Real-Life Projects No 1	20	0	0	0	0	20	2	100	120	4	CA	2	W	2
Spring trimester	*70*	*50*	*5*	*0*	*0*	*20*	*2*	*710*	*780*	*26*				
Windows Phone IDE and Framework	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	CA	2	S	3
Practicals in Real-Life Projects No 2	20	0	0	0	0	20	2	100	120	4	CA	2	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**	**29.4**	**141.4**	**30**	**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