TECHNICAL UNIVERSITY OF VARNA



Ratified by:	
Rector	
/Prof. Rosen Vasilev, PhD/	/

CURRICULUM

Professional orientation: COMMUNICATIONS AND COMPUTER ENGINEERING

Educational and qualification degree: **MASTER** Programme: **SOFTWARE ENGINEERING**

Professional qualification: MASTER - ENGINEER

Mode of study: FULL - TIME

Length of study: 1,5 years / 3 semesters

For holders of educational and qualificational degree "Bachelor" in specialities "Computing", "Software and Internet Technologies" or in specialities of professional orientation 4.6 "Informatics and Computer Science"

			Forms of assessment			Weekly auditorium load						þ	ents	
<u>_</u>	Subject Name						Seminars			ses		d loa	stude	dits
Number		Exams	Inter-semester Evaluation	Course project	Accepted	Lectures	Seminar Exercises	Course project	Assignment	Laboratory Exercises	Total load	Unsupervised load	Whole load of students	ECTS credits
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Optional Subject 1	*				30			15	30	75	135	210	8
2	Optional Subject 2	*				30			15	30	75	135	210	8
3	Optional Subject 3	*				30				30	60	120	180	7
4	Optional Subject 4	*				30				30	60	120	180	7
5	Optional Subject 5		(*)			(30)				(30)	(60)	(90)	(150)	(5)
	Optional Subjects													
	Application Programming with C# and Visual Studio.NE	ΞT												
	Neural Networks and Applications													
	Parallel Programming													
d	Parallel Algorithms and Systems													
е	Visual Information Processing													
f	Network Programming													
	Computer Animation													
h	Android Based Technologies for Mobile Devices													
i	Systems for Computer Algebra													
j	Management Information Systems													
k Simulation of Physical Processes in 3D Modeling Environment														
	Total for the 1 semester:	4	0	0	0	120	0	0	30	120	270	510	780	30
6	Optional Subject 1	*				30			15	30	75	135	210	8
7	Optional Subject 2	*				30				30	60	150	210	8
8	Optional Subject 3	*				30				30	60	120	180	7
9	Optional Subject 4	*				30				30	60	120	180	7
10	Optional Subject 5		(*)			(30)				(30)	(60)	(90)	(150)	(5)

			Forms of assessment			Weekly auditorium load						g	ents	
يا	Subject Name		_	#			Seminars			ises		eol þa	stude	dits
Number		Exams	Inter-semester Evaluation	Course project	Accepted	Lectures	Seminar Exercises	Course project	Assignment	Laboratory Exercises	Total load	Unsupervised load	Whole load of students	ECTS credits
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Optional Subjects													
	Internet for Mobile Devices													
b	Microsoft Technologies for Design and Administration	of Di	stribu	ted I	Data	Base	es							
	Distributed Applications with C # and Visual Studio.Net													
	Distributed and Network Operating Systems													
е	Software Design Patterns													
f	Geographic Information Systems													
	Expert Systems													
h	Mobile Software Technologies													
i	Machine Learning													
j	Virtual 3D Reality Interfaces													
k	Environment and Devices for Virtual Reality and 3D Mo	odeli	ng											
	Game Development													
	Total for the 2 semester:	4	0	0	0	120	0	0	15	120	255	525	780	30
	Totals for the whole course of education	8	0	0	0	240	0	0	45	240	525	1035	1560	60
	Facultative Subjects							·			'			

Types of graduation	Semester	Unsupervised load	ECTS credits
Preparation of Diploma Thesis	2	450	15
Defense of Diploma Thesis	3	450	15

Note:

- 1. The curriculum is valid for the training in Bulgarian and English
- 2. In semester 1 and 2 are taught in 4 or 5 subjects in a decision of the department council.

Approved by the Academic Board of TU-Varna:

Protocol № 20 / 27.03.2017 Modified with Protocols:

Valid from 2017/2018 academic year

The weekly plan of the lessons is fixed according to the Academic Board "Structure of the Learning Process" adopted for the current academic year.

Head of Department: Dean of Faculty:

/Assoc. Prof. V. Bozhikova, PhD/ /Assoc. Prof. N. Nikolov, PhD/