

TECHNICAL UNIVERSITY OF VARNA

Ratified by:

Rector...../Prof. Rosen Vasilev, PhD/

CURRICULUM

Professional orientation: COMMUNICATIONS AND COMPUTER ENGINEERING

Educational and qualification degree: MASTER

Programme: COMPUTER NETWORKS AND COMMUNICATIONS

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 of professional orientation 5.3 Communications and Computer Engineering and specialities "Electronics", "Automation, Information and Control Computers Systems" and "Automation, Robotics And Control Computer Systems" of professional orientation 5.2 Electrical Engineering, Electronics and Automation.

\square	Subject Name	Forms of assessment				Weekly auditorium load						p	ents	
ŗ			_				Seminars		ises		eol be	stude	edits	
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 Subject 1	*				30			15	30	75	135	210	8
	Optional Subject 2	*				30			15	30	75	135	210	8
	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													
	Network Infrastructures													
	Integrated Computer Systems and Networks													
	Computer Networks Design													
	Network Programming with Java													
	Virtualization Technologies													
	Single Chips Microcontrollers for Network Application													
	Design of Digital Schemes with FPGA and Verilog													
h	IT Security													
	Total for the 1 semester:	4	0	0	0	120	0	0	30	120	270	510	780	30
	Optional Subject 1	*				30			15	30	75	135	210	8
	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)

Number	Subject Name	Forms of assessment				Weekly auditorium load						p	ents	
			er	ct			Seminars			cises		ed loa	^c stude	edits
		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													
	Distributed and Network Operating Systems													
	Internet for Mobile Devices													
	Reliability and Security of Communications													
	Inernet Servers and Technologies													
	Wireless Communications													
	Industrial Computer Networks	4												
	Design of Microprocessor Systems for Network Applica	tion	s											
	Applied Cryptography Machine Learning													
<u> </u>				-				_						
	Total for the 2 semester:	4	0	0	0	120	0	0	15	120	255	525	780	30
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	Totals for the whole course of education	8	0	0	0	240	0	0	45	240	525	1035	1560	60
	Facultative Subjects					1								
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Types of graduation	Semester	Unsupervised load	ECTS credits	
Preparation of Diploma Thesis	2	450	15	
Defense of Diploma Thesis	3	430	19	

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 № 11 / 06.06.2016

Modified with Protocols: Nº 21/ 24.04.2017

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:

/Assoc. Prof. H. Valchanov, PhD/

Dean of Faculty: /Assoc. Prof. N. Nikolov, PhD/