TECHNICAL UNIVERSITY OF VARNA



Ratified by:	
Rector	

/Prof. Rosen Vasilev, PhD/

CURRICULUM

Professional orientation: ELECTRICAL ENGINEERING, ELECTRONICS AND AUTOMATION

Educational and qualification degree: MASTER
Programme: BUILDING AUTOMATION SYSTEMS
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" or "Master" after the secondary education of professional orientation 5.2. Electrical

Engineering, Electronics and Automation, 5.3. Communications and Computer Engineering and 5.4.Energetics

	Engineering, Electronics and Automation, 5.3. Communications and	Forms of				Weekly auditorium						dents		
	Subject Name	assessment			load					ad				
Number			_	#			Seminars		rs	ises		ol be	stuc	dits
		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	Legal Requirements and Management of the Energy Resources of Building		*			30				30	60	105	165	6
2	Automated Security and Fire Alarm Systems	*				15				45	60	105	165	6
3	Automated Video Surveillance Systems	*				15				45	60	105	165	6
4	Programmable Controllers for Building Automation	*				15	15			30	60	105	165	6
5	Heating, ventilation and air conditioning (HVAC) control systems	*				30				30	60	130	190	7
	Total for the 1 semester:	4	1	0	0	105	15	0	0	180	300	550	850	31
6	Access Control Systems	*				30				30	60	105	165	6
7	Intelligent Building Automation Systems	*				15	15			30	60	130	190	7
8	Building Management Systems Design	*				15				45	60	105	165	6
9	Control of Building Electric Drives	*				30		00		30	60	105	165	6
10	Complex Project			*				30			30	105	135	5
	Total for the 2 semester:	4	0	1	0	90	15	30	0	135	270	550	820	30
11	Pre-graduation Practice				*						0	120	120	4
	Total for the 3 semester:	0	0	0	1	0	0	0	0	0	0	120	120	4
	Totals for the whole course of education	8	1	1	1	195	30	30	0	315	570	1220	1790	65
Facultative Subjects														
1	Foreign Language, part 1		1				30				30	45	75	3
	2 Foreign Language, part 2		2				30				30	45	75	3
3	Step7 Programming	1				15				45	60	105	165	6
4	Human-Machine Interface	2				15				45	60	105	165	6
5	Network Communication Protocols	2				15				45	60	105	165	6

Types of graduation	Semester	Unsupervised load	ECTS credits	
Preparation of Diploma Thesis	2	450	15	
Defense of Diploma Thesis	3	430	15	

Approved	by the	Academic	Board	OT IU:	-varna:

Protocol № 11 / 06.06.2016 Modified with Protocols:

Valid from 2016/2017 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. N. Nikolov, PhD/

Dean of Faculty:

/Assoc. Prof. N. Nikolov, PhD/