



## TECHNICAL UNIVERSITY OF VARNA

Ratified by:

Rector.....

/Prof. Rosen Vasilev, DSc/

### CURRICULUM

Professional orientation: **ELECTRICAL ENGINEERING, ELECTRONICS AND AUTOMATION**

Educational and qualification degree: **MASTER**

Programme: **ELECTRICAL ENGINEERING**

Professional qualification: **MASTER - ENGINEER**

Mode of study: **FULL - TIME**

Length of study: **1,5 years / 3 semesters**

The curriculum is intended for holders of educational and qualificational degree "Bachelor" and "Master" in specialities in the field of "Technical sciences"

Number	Subject Name	Forms of assessment				Weekly auditorium load						Unsupervised load	Whole load of students	ECTS credits
		Exams	Inter-semester Evaluation	Course project	Accepted	Lectures	Seminars			Laboratory Exercises	Total load			
							Seminar Exercises	Course project	Assignment					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Simulation of Electrotechnological Devices and Technologies	*				30				30	60	75	135	5
2	Lighting Systems	*				30				30	60	75	135	5
3	Design of Electrical Equipment and Systems	*				30				30	60	150	210	8
4	Electrotechnologies - special course	*				30				30	60	150	210	8
5	Special Course Electrical Machines and Apparatus	*				30				30	60	150	210	8
<b>Total for the 1 semester:</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>300</b>	<b>600</b>	<b>900</b>	<b>34</b>
6	Energy Efficiency	*				30	30				60	135	195	7
7	Nanomaterials and Nanotechnologies in Electrical Engineering		*			30	30				60	150	210	8
8	Standards, Methods and Techniques for Project Management	*				30	15		15		60	135	195	7
9	Design of Electrical Equipment and Systems, project			*				60			60	140	200	8
<b>Total for the 2 semester:</b>		<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>90</b>	<b>75</b>	<b>60</b>	<b>15</b>	<b>0</b>	<b>240</b>	<b>560</b>	<b>800</b>	<b>30</b>
10	Pre-graduation Practice				*						0	60	60	2
<b>Total for the 3 semester:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>60</b>	<b>2</b>
<b>Totals for the whole course of education</b>		<b>7</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>240</b>	<b>75</b>	<b>60</b>	<b>15</b>	<b>150</b>	<b>540</b>	<b>1220</b>	<b>1760</b>	<b>66</b>
<b>Facultative Subjects</b>														
1	Instruments to Increase the Company Competitiveness	2				30	30				60	105	165	6
2	Mathematics	2				30	30				60	105	165	6

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

**Approved by the Academic Board of TU-Varna:**

Protocol № 22 / 26.06.2017

Modified with Protocols: № 26 / 18.12.2017

**Valid from 2018/2019 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. B. Aprahamyan, PhD/

Dean of Faculty:

/Assoc. Prof. M. Yordanova, PhD/