TECHNICAL UNIVERSITY OF VARNA

Ratified by:
Rector……
/Prof. Rosen Vasilev, DSc/

C U R R I C U L U M

Professional orientation: **ENERGETICS**
Educational and qualification degree: **MASTER**
Programme: **ELECTRIC POWER 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" in specialities "Electrical Power Engineering", "Electric Power Supply and Electrical Equipment", "Electrical Power Engineering and Equipment"

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	Operation Management of Electric Power Facilities	*				30				30	60	120	180	7
2	Design of Electric Power Facilities	*				30	15				45	105	150	6
3	Extra High Voltage Electricity Transmission	*				30	15			15	60	120	180	7
4	*Optional Subject*		*			30	15				45	90	135	5
a	Electric Power Systems Management													
b	Physical Principles of Nuclear Power Engineering													
5	*Optional Subject*		*			30	15				45	90	135	5
a	Grounding and Lightning Protection Installations													
b	Power Cables Diagnostics													
	Total for the 1 semester:	**3**	**2**	**0**	**0**	**150**	**60**	**0**	**0**	**45**	**255**	**525**	**780**	**30**
6	Design of Electric Power Facilities, project			*							0	120	120	4
7	Systems for Control and Protection	*				30				30	60	140	200	8
8	Transient Processes in Electric Power Systems	*				30				30	60	140	200	8
9	Electric Power Generation from Renewable Energy Sources		*			30	15				45	130	175	7
10	*Optional Subject*		*			30	15				45	105	150	6
a	Occupational Conditions in Indistrial Risk Management													
b	Specialized Lighting Installations													
11	*Optional Subject*	*				30	15				45	90	135	5
a	Electricity Markets													
b	Special Materials and Technologies in Electric Power Engineering													
	Total for the 2 semesters:	**3**	**2**	**1**	**0**	**150**	**45**	**0**	**0**	**60**	**255**	**725**	**980**	**38**

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
12	Pre-graduating Practice				*						0	120	120	4
	Total for the 3 semesters:	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**120**	**120**	**4**
	.													
	Totals for the whole course of education	**6**	**4**	**1**	**1**	**300**	**105**	**0**	**0**	**105**	**510**	**1370**	**1880**	**72**
	Facultative Subjects													
1	Generalized Theory of Electrical Machines	2				30				30	60	150	210	8

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

Approved by the Academic Board of TU-Varna:

Protocol № 4 / 19.10.2015

Modified with Protocols: № 34 / 29.10.2018

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. Yoncho Kamenov, PhD/

Dean of Faculty:
/Assoc. Prof. M. Yordanova, PhD/