



TECHNICAL UNIVERSITY OF VARNA

Ratified by:

Rector.....

/Prof. Rosen Vasilev, DSc/

CURRICULUM

Professional orientation: **ENERGETICS**

Educational and qualification degree: **MASTER**

Специалност: **THERMAL ENGINEERING AND RENEWABLE ENERGY SOURCES**

Professional qualification: **MASTER - ENGINEER**

Mode of study: **FULL - TIME**

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

For holders of educational and qualifical degree "Bachelor" in speciality "Thermal Engineering" и "Thermal Engineering and Renewable Energy Sources"

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	Applied Mathematics		*			30				30	60	120	180	6
2	Applied Fluid Mechanics	*				30				30	60	120	180	6
3	Modeling and Control of Heat Processes	*				30			15	30	75	120	195	7
4	Electronic Systems For Thermal Processes Management		*			15				15	30	90	120	4
5	Thermodynamic Analysis		*			30				30	60	90	150	5
6	Cooling and Frosting		*			30				30	60	90	150	5
Total for the 1 semester:		2	4	0	0	165	0	0	15	165	345	630	975	33
7	Gas Supply Systems	*				30				30	60	90	150	5
8	Presentation Methods and Equipment	*				30			15	30	75	105	180	6
9	Industrial Thermal Engineering Systems	*				30			15	30	75	120	195	7
10	Systems for Renewable Energy Sources		*			30				30	60	90	150	5
11	Air and Gases Cleaning	*				30				30	60	90	150	5
12	Energy Performance of Building Envelop		*			30			15	30	75	105	180	6
Total for the 2 semester:		4	2	0	0	180	0	0	45	180	405	600	1005	34
Totals for the whole course of education		6	6	0	0	345	0	0	60	345	750	1230	1980	67
Facultative Subjects														

Types of graduation	Semester	Unsupervised load	ECTS credits
Preparation of Diploma Thesis / Preparation for State Examination	3	450	15
Defence of Diploma Thesis / State Examination			

Approved by the Academic Board of TU-Varna:

Protocol № 11 / 06.06.2016

Modified with Protocols: № 14 / 24.10.2016, № 24 / 30.10.2017

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. I. Pavlova, PhD/

Dean of Faculty:

/Assoc. Prof. I. Hadzhidimov, PhD/