



AFFIRM

Rector:

/prof. eng. I. Kralov, DSc /

Date:

Educational and qualification degree:

Master

Professional qualification:

Master engineer

Training Duration:

1 year

Form of education:

full time

CURRICULUM

of

"Industrial Engineering"

Professional field **5.13. General Engineering**

for graduated bachelors and/or masters in professional field

5.13 General Engineering and

specialty **"Mechanical and Instrument Engineering"** and **"Mechatronics"**

in professional field **5.1 Mechanics** and all specialties in professional field

5.2 Electrical engineering, electronics and automation

I. WEEKS OF ATTENDANCE

Number of weeks										
Course	weeks of study	Exam sessions	Practical training	Industrial Training	Specialized practical training	Pre-graduation Practice	Diploma project	State exam	Holydays	Total
I	36	3	-	-	-	2*	15*	-	2	41

II. COURSE ABBREVIATION DESIGN

<p>ECTS subject code: T IEe №</p> <ul style="list-style-type: none"> • T – type of course: M – for MEng; • p – additional symbol for branch Plovdiv; • IE – "Industrial Engineering" with English language teaching; • No – subsequent number of the subject; <p>Lectures (L), Tutorial (Tut), Labs (Lab), Auditorium total (AT), Self-Study (SS) per week; Exam (E), Continuous Assessment (CA); Semester Project (SP), Semester Assessment (course work) (SA).</p>
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No	SUBJECT	Semester schedule						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	AT	SS	Total	E	CA	SP	SA		

III. SEMESTER I

1	Process Control and Production Automation	30	15	15	60	90	150	1				MpIEe01	5
2	Manufacturing Management	30	15	0	45	75	120	1				MpIEe02	4
3	Electric Power System Management	30	15	15	60	90	150	1				MpIEe03	5
4	Optional subject from List 1	30	15	0	45	75	120		1			MpIEe04	4
5	Optional subject from List 2	30	30	0	60	60	120		1			MpIEe05	4
	Diploma project	0	0	0	0	240	240					MpIEe12	8
Total		150	90	30	270	630	900	3	2	0	0		30

IV. SEMESTER II

6	Quality Control Systems	30	30	0	60	60	120	1				MpIEe06	4
7	Information technologies	30	0	30	60	60	120	1				MpIEe07	4
8	Financial Analysis and Investment	30	15	0	45	75	120	1				MpIEe08	4
9	Optional subject from List 3	30	15	0	45	75	120		1			MpIEe09	4
10	Optional subject from List 4	30	15	0	45	75	120		1			MpIEe10	4
11	Fundamentals of design and construction	15	30	0	45	45	90			1		MpIEe11	3
12	Diploma project	0	0	0	0	210	210	Diploma defence			MpIEe12	7	
Total		165	105	30	300	600	900	3	2	1			30

Notes: The Pre-graduation practice and Diploma project are included in the semesters



III. MAIN PARAMETERS OF THE CURRICULUM

- 1. Programme duration and structure - 1 year, 2 semesters**
- 2. Auditorium time according to the curriculum: 570 hours of them**
2.1 Lectures - 315 hours; 2.2 Seminars - 195 hours; 2.3 Labs - 60 hours
- 3. Non auditorium time (SS) according to the curriculum – 1230 hours**
- 4. Total time according to the curriculum – 1800 hours**
- 5. Total number of the subject positions – 11 units**
5.1 Compulsory – 7 units; 5.2 Optional – 4 units; 5.3 Facultative – 2 units;
- 6. Assessment:**
6.1 Exams – 6 units; 6.2 Continuous assessments – 4 units; 6.3 Semester projects - 1 unit;
6.4 Semester assessments – 0 units.
- 7. Practice – 2 weeks**
- 8. Total ECTS credits – 60**

Dean of FEA:
(assoc. prof., G. Ganev, PhD)

Accepted by FC of FEA on 10.09.2020 with Protocol № 9;

Confirmed by the AC of TU – Sofia with Protocol № № 8 / 30.09.20



Technical University – Sofia, branch Plovdiv

LISTS OF OPTIONAL SUBJECTS

List 1 (ECTS credits- 4)		
1	Organizational Behavior	MpIEe04.1
2	Knowledge Management	MpIEe04.2

List 2 (ECTS credits – 4)		
1	Energetic and Energy Efficiency	MpIEe05.1
2	Robotics and Automation Technology	MpIEe05.2

List 3 (ECTS credits – 4)		
1	Crosscultural Communication	MpIEe09.1
2	Small Business Management and Entrepreneurship	MpIEe09.2

List 4 (ECTS credits – 4)		
1	Microelectronic Technologies	MpIEe10.1
2	Intelligent Manufacturing Systems	MpIEe10.2
3	Product Development Using MSC Adams	MpIEe10.3
4	Java Programming and Internet Application	MpIEe10.4

LIST OF FACULTATIVE SUBJECTS

No	SUBJECT	Semester schedule						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	AT	SS	Total	E	CA	SP	SA		

SEMESTER I

1	Expert systems	30	30	0	60	60	120		1			FaMpIE 01	4
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SEMESTER II

2	Time Series Forecasting	20	0	20	40	50	90		1			FaMpIE 02	4
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NOTES: The lists of optional subjects and the facultative subjects are updated annually before the start of the school year.

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(assoc. prof., G. Ganev, PhD)

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