Master's degree program in Industrial Engineering

as of 2020/2021 academic year

CURRICULUM

ECTS subject code: **T IEe №**
- **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;

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).

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

I.   SEMESTER I

No	SUBJECT	L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	ECTS code	ECTS credits
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

II.   SEMESTER II

No	SUBJECT	L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	ECTS code	ECTS credits
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

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
SEMESTER II													
2	Time Series Forecasting	20	0	20	40	50	90		1			**FaMpIE 02**	4

NOTES: The contents of the lists of optional courses and their names are subject to update before the start of the academic year.