

**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 schedule						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	AT	SS	Total	E	CA	SP	SA		

SEMESTER I

1	Management of Industrial Production I	30	15	0	45	105	150					MpIEe21	5
2	Manufacturing Design I	30	0	30	60	90	150			1		MpIEe22	5
3	Computer Integrated Manufacturing I	30	0	15	45	105	150					MpIEe23	5
4	Control Engineering	30	0	15	45	105	150	1				MpIEe24	5
5	Quality Control	30	15	15	60	90	150	1				MpIEe25	5
6	Industrial Manufacturing Systems I	30	15	0	45	105	150		1		1	MpIEe26	5
Total		180	45	75	300	600	900	2	1	1	1		30

SEMESTER II

7	Management of Industrial Production II	30	15	0	45	105	150	1				MpIEe27	5
8	Manufacturing Design II	30	0	15	45	105	150	1		1		MpIEe28	5
9	Computer Integrated Manufacturing II	30	0	30	60	90	150		1			MpIEe29	5
10	Industrial Manufacturing Systems I	30	15	15	60	90	150	1				MpIEe30	5
11	Manufacturing Strategies	30	30	0	60	90	150		1			MpIEe31	5
12	Human Resources Management	30	15	0	45	105	150		1			MpIEe32	5
Total		180	75	60	315	585	900	3	3	1	0		30

SEMESTER III

13	Process Control and Production Automation	30	15	15	60	90	150	1				MpIEe01	5
14	Manufacturing Management	30	15	0	45	75	120	1				MpIEe02	4
15	Electric Power System Management	30	15	15	60	90	150	1				MpIEe03	5
16	Optional subject from List 1	30	15	0	45	75	120		1			MpIEe04	4
17	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

SEMESTER IV

18	Quality Control Systems	30	30	0	60	60	120	1				MpIEe06	4
19	Information technologies	30	0	30	60	60	120	1				MpIEe07	4
20	Financial Analysis and Investment	30	15	0	45	75	120	1				MpIEe08	4
21	Optional subject from List 3	30	15	0	45	75	120		1			MpIEe09	4
22	Optional subject from List 4	30	15	0	45	75	120		1			MpIEe10	4
23	Fundamentals of design and construction	15	30	0	45	45	90			1		MpIEe11	3
24	Diploma project	0	0	0	0	210	210	Diploma defence			MpIEe12	7	
Total		165	105	30	300	600	900	3	2	1	0		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
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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.