CURRICULUM
Master's degree program in Mechatronics

ECTS Subject code T p MEH No
- T – type of course: B for BEng, M for MEng;
- p - additional symbol for Plovdiv Branch
- MEH – specialty "Mechatronics" in Bulgarian;
- No – number of the subject;

Lectures (L), Tutorials (Tut.), Labs (Lab.), Auditorium Total (AT), Self-Study (SS), Exam (E), Continuous Assessment (CA), Semester Project (SP), Semester Assignment (course work) (SA).

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER I													
1	**MpMEH01**	Lifecycle Management of Mechatronic Products	30	0	30	***60***	60	***120***	1			1	**4**
2	**MpMEH02**	Innovation and Project Management	30	15	0	***45***	75	***120***		1			**4**
3	**MpMEH03**	Design of Mechatronic Systems	30	0	30	***60***	60	***120***		1			**4**
4	**MpMEH04**	Intelligent Measurement Systems	30	0	15	***45***	75	***120***	1				**4**
5	**MpMEH05**	Engineering Research	30	0	15	***45***	75	***120***	1			1	**4**
6	**MpMEH06**	Optional subject (List - 1)	30	0	30	***60***	60	***120***	1				**4**
7	**MpMEH07**	Optional subject (List - 2)	30	0	30	***60***	60	***120***		1			**4**
8	**MpMEH08**	Course Project (subjects 6 or 7)	0	0	0	***0***	60	***60***			1		**2**
Total			**210**	**15**	**150**	**375**	**525**	**900**	**4**	**3**	**1**	**2**	**30**
SEMESTER II													
9	**MpMEH09**	Control Systems for Mechatronic Systems and Industrial Networks	30	0	15	***45***	45	***90***	1			1	**3**
10	**MpMEH10**	Automotive Mechatronics	30	0	15	***45***	45	***90***	1			1	**3**
11	**MpMEH11**	Integrated Manufacturing	30	0	15	***45***	45	***90***	1				**3**
12	**MpMEH12**	Optional subject (List - 3)	30	0	15	***45***	45	***90***		1	1		**3**
13	**MpMEH13**	Optional subject (List - 4)	30	0	15	***45***	45	***90***		1	1		**3**
14	**MpMEH14**	Diploma project	0	0	0	***0***	450	***450***	Defense of diploma thesis				**15**
Total			**150**	**0**	**75**	**225**	**675**	**900**	**3**	**2**	**2**	**2**	**30**

Note:

*Subjects MpMEH06.1, MpMEH07.1, MpMEH12.1 и MpMEH13.1 form Master Program **„Mechatronic Systems in Discrete Production Engineering“**

*Subjects MpMEH06.2, MpMEH07.2, MpMEH12.2 и MpMEH13.2 form Master Program **"„Optical, Micromechanical and Measuring Devices“**

LIST OF THE OPTIONAL SUBJECTS

List 1		**ECTS = 4**
1	Assembly Automation	**MpMEH06.1**
2	Metrological assurance in mechatronics	**MpMEH06.2**
List 2		**ECTS =4**
1	Implementation of Mechatronic Systems in Discrete Production Engineering	**MpMEH07.1**
2	Optical and Laser Devices	**MpMEH07.2**
List 3		**ECTS = 3**
1	Motion Control in Mechcatronic Systems	**MpMEH12.1**
2	Micromechanical Devices	**MpMEH12.2**
List 4		**ECTS = 3**
1	Design and Implementation of Automated Mechatronic Complexes in Discrete Production Engineering	**MpMEH13.1**
2	Accuracy and Reliability of Mechatronic Systems	**MpMEH13.2**

LIST OF THE FACULTATIVE SUBJECTS

№	**Code**	**SUBJECT**	**Semester Load**						**Assesment**				**ECTS credits**
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER I													
1	**FaMpMEH01**	Micro and Electromechanical Systems	30	0	30	***60***	60	***120***		1			**4**
SEMESTER II													
1	**FaMpMEH02**	Computer Aided Modeling and Analysis of Mechanical Systems	30	0	30	***60***	60	***120***		1			**4**