

**Master's degree program in Metrology and Measuring Devices
as of 2020/2021 academic year**

CURRICULUM

ECTS subject code **T MMD №**

- **T** – type of course: **B** for BEng, **M** for MEng;
- **MMD** – „ Metrology and Measuring Devices“;
- **№** – subsequent number of the subject;

Lectures (L), tutorials (Tut), labs (Lab), Self-Study (SS);

Exam (E), continuous assessment (CA), semester project (SP), semester assignment (course work) (SA).

№	Subject	Semester load						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	Aud. Total	SS	Total	E	CA	SP	SA		

SEMESTER I

1	Metrology Fundamentals	30	15	0	45	75	120	1				MMMD 01	4
2	Measuring Devices Fundamentals	30	15	15	60	60	120	1			1	MMMD 02	4
3	Design of Measuring Devices and Systems	30	15	15	60	90	150	1			1	MMMD 03	5
4	Processing and Analysis of Measurement Information	30	0	30	60	60	120	1				MMMD 04	4
5	Metrological Assurance and Metrological Infrastructure	30	15	15	60	90	150		1			MMMD 05	5
6	Engineering Researches	30	0	15	45	75	120		1			MMMD 06	4
7	Reliability and Diagnostics of Measuring Devices	30	0	15	45	75	120		1			MMMD 07	4
Total		210	60	105	375	525	900	4	3	0	2		30

SEMESTER II

8	Intelligent Measuring Systems	30	0	15	45	45	90	1				MMMD 08	3
9	Optional subject (List - 1)	30	0	15	45	45	90	1			1	MMMD 09	3
10	Optional subject (List - 2)	30	0	15	45	45	90		1		1	MMMD 10	3
11	Optional subject (List - 3)	30	0	15	45	45	90		1	1		MMMD 11	3
12	Optional subject (List - 4)	30	0	15	45	45	90	1		1		MMMD 12	3
13	Diploma project					450	450	Diploma project defense				MMMD 13	15
Total		150	0	75	225	675	900	3	2	2	2		30

Notes: The list of optional subjects are annually updated and approved by the Faculty Council of Mechanical Engineering Faculty.

Subjects MMMD09.1, MMMD10.1, MMMD11.1 and MMMD12.1 form Master Program - „**Electrical Measurements**”.

Subjects MMMD09.2, MMMD10.2, MMMD11.2 and MMMD12.2 form Master Program - "Physical and Mechanical Measurements".

LIST OF OPTIONAL SUBJECTS

List - 1		MMMD09	(ECTS Credits - 3)	Code
1.	Software for Automation of Meteorological Activities			MMMD09.1
2.	Physical and Mechanical Measurements			MMMD09.2

List - 2		MMMD10	(ECTS Credits - 3)	Code
1.	Distributed Measurement Systems and Virtual Instruments			MMMD10.1
2.	Geometrical Measurements			MMMD10.2

List - 3		MMMD11	(ECTS Credits - 3)	Code
1.	Measurement and Control of Environmental Parameters			MMMD11.1
2.	Optical Measurements			MMMD11.2

List - 4		MMMD12	(ECTS Credits - 3)	Code
1.	Electromagnetic Compatibility of Measuring Devices			MMMD12.1
2.	Automation of Control and Metrological Activities			MMMD12.2

LIST OF FACULTATIVE SUBJECTS

№	Subject	Semester load						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	AT	SS	Total	E	C A	SP	S A		

SEMESTER I

1	Analytical Measurements	30	0	30	60	60	120		1			FaMMMD 01	4
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SEMESTER II

2	Colorimetric Measurements	30	0	30	60	60	120		1			FaMMMD 02	4
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