

Master's degree program in Electrical Engineering

ECTS Subject code **TpEE №**

- **T** – type of course: **B** for BEng, **M** for MEng
- **p** – for Plovdiv branch;
- **EE** - „Electrical Engineering”;
- **№**– subsequent 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)

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

SEMESTER I

1	Measurement tools and systems	30	0	30	60	90	150	1				MpEE01	5
2	Numerical methods and modeling of circuits	30	0	30	60	90	150	1				MpEE02	5
3	High voltage electric machines and apparatus	30	0	30	60	90	150	1			1	MpEE03	5
4	Optional subject 1 (from List 1)	30	0	30	60	90	150	1				MpEE04	5
5	Optional subject 2 (from List 2)	30	0	30	60	90	150	1		1		MpEE05	5
6	Optional subject 3 (from List 3)	30	0	30	60	90	150		1			MpEE06	5
Total		180	0	180	360	540	900	5	1	1	1		30

SEMESTER II

7	Numerical methods and modeling of fields	30	0	30	60	60	120	1				MpEE07	4
8	Quality Management	20	20	0	40	50	90		1			MpEE08	3
9	Introduction to informatics	0	0	20	20	40	60		1			MpEE09	2
10	Optional subject 4 (from List 4)	20	0	20	40	50	90	1				MpEE10	3
11	Optional subject 5 (from List 5)	20	20	0	40	50	90		1			MpEE11	3
12	Diploma project					450	450	Diploma project defense				MpEE12	15
Total		90	40	70	200	700	900	2	3	0	0		30

LISTS OF OPTIONAL SUBJECTS

List1 - MpEE04 (ECTS credits - 5)		Code
1	Protection of electrical equipment	MpEE04.1
2	European standards in electrical engineering	MpEE04.2

List2 – MpEE05 (ECTS credits - 5)		Code
1	Vector control of electrical machines	MpEE05.1
2	Computer simulation of processes and electrical systems with commutation	MpEE05.2
3	Electric power supply and equipment	MpEE05.3
4	Engineering optimization methods	MpEE05.4

List3 – MpEE06 (ECTS credits - 5)		Code
1	Special electric machines and apparatus	MpEE06.1
2	Electronic devices in transport	MpEE06.2
3	Special construction and electrical materials	MpEE06.3

List4 - MpEE10 (ECTS credits - 3)		Code
1	Transient processes in electric power grids and electric power systems	MpEE10.1
2	Design of converters	MpEE10.2
3	Buildings automation equipment	MpEE10.3

List5 - MpEE11 (ECTS credits - 3)		Code
1	Industrial legislation	MpEE11.1
2	Marketing	MpEE11.2

LISTS OF FACULTATIVE SUBJECTS

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

SEMESTER I

1	Time series forecasting	20	0	20	40	50	90		1			FaMpEE01	3
2	Power supply devices	20	0	20	40	50	90		1			FaMpEE02	3

SEMESTER II

3	Mathematical methods for digital processing	20	0	20	40	50	90		1			FaMpEE03	3
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Note:

1. The lists of optional and facultative subjects are updated annually and are accepted by the Faculty Council of the Faculty of Electronics and Automation.
2. The facultative course schedule will be announced by the faculty office.