

Curriculum

ECTS Subject code **TE No**

• **T** – type of course: **B** for BEng, **M** for MEng;

• **E** – Electronics

• **No** – subsequent number of the subject; Lectures

(L), tutorials (Tut.), labs (Lab.) weekly;

exam (E), continuous assessment (CA); semester projects (SP)/ semester assignment (course work) (SA)

No	Subject	Week load						Assessment				ECTS subject code	ECTS credits
		L	Tut	Lab.	Total L+Tut.+Lab.	Self study	Total	E	CA	SP	SA		

SEMESTER I

1	Mathematical methods for digital signal processing	2	0	1	3	4	7		1		1	ME01	4
2	Design of embedded systems	2	0	2	4	6	10	1		1*		ME02	6
3	CAD systems in microelectronics	2	0	2	4	4	8	1		1*		ME03	5
4	Electronic energy converters	2	0	2	4	6	10	1		1*		ME04	6
5	Electronic development	2	0	2	4	4	8	1		1*		ME05	5
6	Project management	2	1	0	3	4	7		1			ME06	4
Total		12	1	9	22	28	50	4	2	1	1		30

SEMESTER II

7	Programming of embedded systems	1	0	2	3	4	7	1				ME07	4
8	Programmable logical devices	2	0	2	4	4	8	1		1*		ME08	5
9	Optional subject ** (list 2)	2	0	2	4	4	8	1		1*		ME09	5
10	Optional subject ** (list 3)	2	0	2	4	4	8	1		1*		ME10	5
11	Optional subject (list 4)	2	0	2	4	4	8		1			ME12	5
12	Optional subject (list 5)	2	0	1	3	4	7		1			ME13	4
13	Specializing practical work	0	0	2	2	2	4				1	ME14	2
Total		11	0	13	24	26	50	4	2	1	1		30

* One SP should be chosen.

SEMESTER III

15	Diploma project	Diploma defense										ME15	15
Total													15

Remark:

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** Subjects 8.1, 9.1, 10.1 and SP form “Automated electric drives” Master program

** Subjects 8.2, 9.2, 10.2 and SP form “Electronic information processing systems” Master program

LIST OF OPTIONAL SUBJECTS

List 1 (ECTS =5)		
1	Electric Drives	ME9.1
2	Application of Distributed Systems in Medicine	ME9.2
List 2 (ECTS =5)		
1	Electronic converters for controlling of electric motors	ME10.1
2	Specialized microprocessors for digital signal processing Control systems	ME10.2
List 3 (ECTS =5)		
1	Programmable Logic Controllers	ME11.1
2	Optoelectronic systems	ME11.2
List 4 (ECTS =5)		
1	Optical communication systems	ME12.1
2	Applied photovoltaics	ME12.2
3	Television systems	ME12.3