CURRICULUM

ECTS Subject code **T AICE No**

- **T** – type of course: **B** - for BEng, **M** for MEng;
- **AICE** Automation, Information and Control Engineering
- **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				ETCS code	ETCS credits
		L	Tut	Lab	AT	SS	Total	E	CA	SP	SA		
SEMESTER I													
1	Optimal Control	2	0	1	3	4	7	1				**MAICE01**	4
2	Adaptive control	3	1	1	5	6	11	1		1		**MAICE02**	6
3	Intelligent Measurement Systems	2	0	1	3	4	7	1				**MAICE03**	4
4	Optional Subject (List OS - 1)	2	0	1	3	6	9		1			**MAICE04**	6
5	Optional Subject (List OS - 2)	2	0	1	3	6	9		1		1	**MAICE05**	6
6	Optional Subject (List OS - 3)	2	0	1	3	4	7	1				**MAICE06**	4
Total		**13**	**1**	**6**	**20**	**30**	**50**	**4**	**2**	**1**	**1**		**30**
SEMESTER II													
7	Automated Production Systems	2	0	1	3	4	7	1				**MAICE07**	4
8	Robotics	2	0	1	3	4	7	1				**MAICE08**	4
9	Fuzzy and Neural Network-based Control	2	0	1	3	4	7	1				**MAICE09**	4
10	System Analysis	2	0	1	3	6	9	1				**MAICE10**	6
11	Optional Subject (List OS - 4)	3	1	1	5	6	11		1	1		**MAICE11**	6
12	Optional Subject (List OS - 5)	2	0	1	3	6	9		1		1	**MAICE12**	6
Total		**13**	**1**	**6**	**20**	**30**	**50**	**4**	**2**	**1**	**1**		**30**
SEMESTER III													
13	**Diploma project**	**Diploma project defence**										**MAICE13**	15
Total													**15**

LIST OF OPTIONAL SUBJECTS AND OPTIONAL SUBJECTS IN MODULES

	List OS - 1 (ECTS =6)	
1	Energetic of Electrical Drives	MAICE04.1
2	Engineering Methods inElectro Mechanics	MAICE04.2

	List OS - 2 (ECTS =6)	
1	Modeling and Optimization	MAICE05.1
2	Industrial control systems	MAICE05.2

	List OS - 3 (ECTS =4)	
1	Distributed Control Systems	MAICE06.1
2	Predictive Control	MAICE06.2

	List OS - 4 (ECTS =6)	
1	Design of Electrical Drives Systems	MAICE11.1
2	Control Systems of Combustion Processes	MAICE11.2

	List OS - 5 (ECTS =6)	
1	Control of Industrial Manipulators	MAICE12.1
2	Automatic Tuning of Controllers	MAICE12.2
3	Electromagnetic compatibility in electrical drives	MAICE12.3
4	Protections of Electrical Drives	MAICE12.4
5	Information Systems in Industry	MAICE12.5
6	Robust control	MAICE12.6