

CURRICULUM

Master's degree program in Design and programming of electronic systems as of 2023/2024 academic year

ECTS Subject code T MpES No
 - T – type of course: M for MEng;
 - p - for Plovdiv branch
 - ES – specialty “Design and programming of electronic systems” 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	MpES01	Artificial intelligence and neural networks	30	0	30	60	60	120		1			4
2	MpES02	Computer networks and communications	30	0	30	60	60	120		1		1	4
3	MpES03	Mathematical methods for digital signal processing	30	0	30	60	90	150	1				5
4	MpES04	Medical systems for remote monitoring, storage and data processing	30	0	30	60	90	150	1				5
5	MpES05	Electronic energy converters	30	0	30	60	90	150		1			5
6	MpES06	Methods and means of designing digital integrated circuits	30	0	30	60	90	150		1			5
7	MpES07	Semester Project (according to subject chosen from 3-6)	0	0	0	0	60	60			1*		2
Total			180	0	180	360	540	900	2	4	1	1	30
* One SP should be chosen.													
SEMESTER II													
8	MpES08	Design of embedded systems	20	0	20	40	50	90		1			3
9	MpES09	Optional subject 1 (List 1 or List 2)	20	0	20	40	50	90		1			3
10	MpES10	Optional subject 2 (List 1 or List 2)	20	0	20	40	50	90		1			3
11	MpES11	Optional subject 3 (List 1 or List 2)	20	0	20	40	50	90		1			3
12	MpES12	Optional subject (List 4)	20	0	20	40	50	90		1			3
13	MpES13	Diploma project	0	0	0	0	450	450	Defense of diploma thesis			15	
Total			100	0	100	200	700	900	0	5	0	0	30

LIST OF THE OPTIONAL SUBJECTS

List 1		ECTS = 3
1	Electronic converters for motors control	MpES09.1
2	Programming of Embedded Systems	MpES10.1
3	Telecommunications	MpES11.1
List 2		ECTS = 3
1	Applied electronic circuits and devices	MpES09.2
2	Programmable Logic Controllers	MpES10.2
3	Optical communication systems	MpES11.2
List 3		ECTS = 3
1	Project Management	MpES12.1
2	Industrial legislation	MpES12.2

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	FaMpES01	Power supplies	30	0	30	60	60	120		1			4
SEMESTER II													
2	FaMpES02	Intelligent sensor-actuator systems	30	0	30	60	60	120		1			4

Note: The contents of the lists of optional and facultative courses and their names are subject to update before the start of the academic year.

Dean of FEA
(Assoc. Prof. Dr. Eng. Georgi Ganey)

Accepted by the Faculty council of FEA on 30.03.2023 with Protocol №