

Code	Compulsory subjects	Tutors	Winter semester					Summer semester														
			P	S	C	End	Cr	P	S	C	End	Cr										
AE7DR	Discrete Control	Vašek Vladimír	2	1	2	z, zk	6															
AE7MV	Process Modeling in Manufacturing Technologies	Janáčková Dagmar, Kolomazník Karel	3	3	1	z, zk	7															
AE7AS	Analysis and Simulation of Continuous Systems	Gazdoš František	2	0	2	z, zk	5															
A7SEN	Sensors	Hruška František, ext.	2	0	2	z, zk	5															
AE7PP	Planning and Simulation of Production Processes	Vašek Lubomír, Chramcov Bronislav	2	0	2	z, zk	5															
AE7A1	Professional English 1	Outěřická Tereza	0	2	0	kl	3															
AE8A2	Professional English 2	Outěřická Tereza						0	2	0	z, zk	4										
AE8SA	State and Algebraic Control Theory	Gazdoš František, Matušů Radek						2	0	2	z, zk	5										
AE8IS	Systems Identification	Kubalčík Marek						2	1	2	z, zk	6										
AE8SC	Softcomputing in Automatic Control	Komínková Oplatková Zuzana						2	0	2	z, zk	5										
AE8ZS	Signal Processing	Kubalčík Marek						2	1	0	kl	4										
Subtotal			26					31					18					24				

Code	Compulsory elective subjects *)	Tutors	Winter semester					Summer semester														
AE8EK	Electromagnetic Compatibility	Pospíšilík Martin						2	0	2	z, zk	5										
AE8KD	Kinematics and Dynamics of Mechatronic Systems	Úředníček Zdeněk						2	0	2	z, zk	5										
Total			26					31					22					29				

Code	Compulsory subjects	Tutors	Winter semester					Summer semester																								
AE7PR	Professional Placement	Vašek Vladimír **)	120					z					5					120					z					5				

*) The student chooses one of the offered compulsory elective subjects.

***) The Professional Placement subject (i.e. 120 hours work) can be fulfilled during any semester of their follow-up studies

Attachments can be found on the FAI website at: Student FAI / Výuka / Studijní plány - <https://fai.utb.cz/student/vyuka/studijni-plany/>

Study Programme: Automatic Control and Informatics in Industry 4.0
 Form of Studies: Full-time
 Academic Year: 2021/2022

2nd Year
 Mgr.

Code	Compulsory subjects	Tutors	Winter semester					Summer semester						
			P	S	C	End	Cr	P	S	C	End	Cr		
AE9PR	Industry 4.0	<i>Vašek Lubomír, Mizera Aleš, Lukašik Petr</i>	2	0	2	z, zk	5							
AE9SV	Machine Vision	<i>Chalupa Petr, Novák Jakub</i>	2	0	2	z, zk	5							
AE9RR	Real Process Control	<i>Chalupa Petr</i>	0	1	3	kl	5							
AE9DM	Datamining	<i>Šenkeřík Roman</i>	2	0	2	z, zk	5							
AE9RO	Term Project	<i>Vašek Vladimír</i>	0	1	0	z	1							
AE0TP	Technology of Industrial Information Systems	<i>Neumann Petr</i>						2	0	2	z, zk	4		
AE0PR	Designing Real Control Systems	<i>Chalupa Petr, Novák Jakub, Matušů Radek</i>						1	0	5	kl	8		
AE0ZP	Business Basics	<i>Novák Petr</i>						2	1	0	kl	2		
AE0PP	Fundamentals of Emergency Health Aid	<i>Burget Niko</i>						7	0	0	z	1		
AE0DP	Diploma Thesis	<i>Vašek Vladimír</i>						0	0	18	z	18		
	Subtotal				17			21	38			33		

Code	Compulsory elective subjects *)	Tutors	Winter semester					Summer semester						
AE9PM	Advanced Methods of Automatic Control	<i>Kubalčík Marek</i>	2	0	2	z, zk	6							
AE9RP	Motion Control	<i>Úředníček Zdeněk</i>	2	0	2	z, zk	6							
	Total				21			27	38			33		

The subject Fundamentals of Emergency Health Aid is taught in blocks of 7 hours per semester. Hours are not included in the total

The course Diploma Thesis (DT) includes not only individual work of students but also organized teaching for a total of 14 hours/semester in the following division into 2 teaching blocks:

Block 1: student presentations, presenting the status of the DT solution, approval of the DT outline, professional and formal requirements of the written DT, information on the faculty's job search

Block 2: student presentations with the participation of DT leaders, presenting the almost finished DT.

The conditions and dates of these inspection days are set by the field supervisor at the beginning of the summer semester.