Study Programme: Automatic Control and Informatics in Industry 4.0
Form of Studies: Full-time
Academic Year: 2024/2025

1st Year Mgr.

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**	*Janáčová Dagmar, Kolomazník Karel*	3	3	1	z, zk	7					
AE7AS	**Analysis and Simulation of Continuous Systems**	*Gazdoš František*	2	0	2	z, zk	6					
AE7OP	**Optimisation**	*Prokop Roman*	2	0	2	z, zk	5					
AE7PP	**Planning and Simulation of Production Processes**	*Vašek Lubomír, Chramcov Bronislav*	2	0	2	z, zk	6					
AE8TD	**Technical Documentation and Presentation**	*Vojtěšek Jiří*						0	0	2	kl	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	6
AE8EK	**Electromagnetic Compatibility**	*Pospíšilík Martin*						2	0	2	z, zk	5
AE8ZS	**Signal Processing**	*Kubalčík Marek*						2	1	0	kl	4
	Subtotal			24			30		22			30

Code	Compulsory elective subjects *)	Tutors	Winter semester					Summer semester				
AE8KD	**Kinematics and Dynamics of Mechatronic Systems**	*Novák Jakub*						2	0	2	z, zk	5
	Total			**24**			**30**	**#ODKAZ!**				**##**

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**	**2nd Year Mgr.**
Form of Studies:	**Full-time**	
Academic Year:	**2024/2025**	

Code	Compulsory subjects	Tutors	Winter semester					Summer semester				
			P	S	C	End	Cr	P	S	C	End	Cr
AE9PR	**Industry 4.0**	*Vašek Lubomír, Mizera Aleš, Lukašík Petr*	2	0	2	z, zk	5					
AE9SV	**Machine Vision**	*Chalupa Petr, Novák Jakub*	2	0	2	z, zk	5					
AE9RR	**Real Process Control**	*Chalupa Petr*	0	1	3	kl	5					
AE9DM	**Datamining**	*Šenkeřík Roman*	2	0	2	z, zk	5					
AE9RO	**Term Project**	*Vašek Vladimír*	0	1	0	z	1					
AE0TP	**Technology of Industrial Information Systems**	*Neumann Petr*						2	0	2	z, zk	4
AE0PR	**Designing Real Control Systems**	*Chalupa Petr, Novák Jakub, Matušů Radek*						1	0	5	kl	8
AE0ZP	**Business Basics**	*Novák Petr*						2	1	0	kl	2
AE0PP	**Fundamentals of Emergency Health Aid**	*Burget Niko*						7	0	0	z	1
AE0DP	**Diploma Thesis**	*Vašek Vladimír*						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**	*Kubalčík Marek*	2	0	2	z, zk	6					
AE9RP	**Motion Control**	*Chalupa Petr*	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 a

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.