

Code	Compulsory subjects	Tutors	Winter semester				Summer semester						
			P	S	C	End	Cr	P	S	C	End	Cr	
AE7DR	<b>Discrete Control</b>	<i>Vašek Vladimír</i>	2	1	2	z, zk	6						
AE7MV	<b>Process Modeling in Manufacturing Technologies</b>	<i>Janáčková Dagmar, Kolomazník Karel</i>	3	3	1	z, zk	7						
AE7AS	<b>Analysis and Simulation of Continuous Systems</b>	<i>Gazdoš František</i>	2	0	2	z, zk	6						
AE7OP	<b>Optimisation</b>	<i>Prokop Roman</i>	2	0	2	z, zk	5						
AE7PP	<b>Planning and Simulation of Production Processes</b>	<i>Vašek Lubomír, Chramcov Bronislav</i>	2	0	2	z, zk	6						
AE8TD	<b>Technical Documentation and Presentation</b>	<i>Vojtěšek Jiří</i>						0	0	2	kl	4	
AE8SA	<b>State and Algebraic Control Theory</b>	<i>Gazdoš František, Matuš Radek</i>						2	0	2	z, zk	5	
AE8IS	<b>Systems Identification</b>	<i>Kubalčík Marek</i>						2	1	2	z, zk	6	
AE8SC	<b>Softcomputing in Automatic Control</b>	<i>Komínková Oplatková Zuzana</i>						2	0	2	z, zk	6	
AE8EK	<b>Electromagnetic Compatibility</b>	<i>Pospíšilík Martin</i>						2	0	2	z, zk	5	
AE8ZS	<b>Signal Processing</b>	<i>Kubalčík Marek</i>						2	1	0	kl	4	
Subtotal			24				30	22				30	

  

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

  

Code	Compulsory subjects	Tutors	Winter semester				Summer semester					
AE7PR	<b>Professional Placement</b>	<i>Vašek Vladimír **)</i>	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: 2024/2025

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	Vašek Lubomír, Mizera Aleš, Lukašik 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						
			P	S	C	End	Cr	P	S	C	End	Cr		
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							
	<b>Total</b>							<b>21</b>		<b>27</b>	<b>38</b>			<b>33</b>

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.