

Code	Compulsory subjects	Tutors	Winter semester					Summer semester				
			P	S	C	End	Cr	P	S	C	End	Cr
AE7DR	Discrete Control	Matušů, AUART	2	1	2	z, zk	7					
AE7AS	Analysis and Simulation of Continuous Systems	Gazdoš, AURP	2	0	2	z, zk	6					
AE7OP	Optimisation	Prokop, AUM	2	0	2	z, zk	5					
AE7PP	Planning and Simulation of Production Processes	Vašek L. ext., AUART	2	0	2	z, zk	6					
AE7PY	Python for Industrial Control Systems	Novák, AUART	0	0	3	kl	3					
AE7PL	Advanced PLC Programming	Sysala, AUART	0	0	3	kl	3					
AE8TD	Technical Documentation and Presentation	Vojtěšek, AURP						0	0	2	kl	4
AE8IS	Systems Identification	Kubalčík, AURP						2	1	2	z, zk	6
AE8SC	Softcomputing in Automatic Control	Komínková Oplatková, AUIUI						3	0	3	z, zk	6
AE8ZS	Signal Processing	Kubalčík, AURP						2	1	0	kl	4
AE8SV	Machine Vision	Chalupa, Novák, AUART						2	0	2	z, zk	5
Subtotal			23					30				

Code	Compulsory elective subjects *)	Tutors	Winter semester					Summer semester				
AE8SA	State-space and Algebraic Control Theory	Gazdoš, AURP						2	0	2	z, zk	5
AE8KD	Kinematics and Dynamics of Mechatronic Systems	Novák, AUART						2	0	2	z, zk	5
Total			23					30				

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: 2025/2026

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 L. ext., AUART	2	0	2	z, zk	5					
AE9SV	Machine Vision	Novák, AUART	2	0	2	z, zk	5					
AE9RR	Real Process Control	Chalupa, AUART	0	1	3	kl	5					
AE9DM	Datamining	Šenkeřík, AUIUI	2	0	2	z, zk	5					
AE9RO	Term Project	Vašek V., AUART	0	1	0	z	1					
AE0TP	Technology of Industrial Information Systems	Neumann, AUEM						2	0	2	z, zk	4
AE0PR	Designing Real Control Systems	Chalupa, Novák, AUART						1	0	5	kl	8
AE0ZP	Business Basics	Novák, MUPE (FAME)						2	1	0	kl	2
AE0PP	Fundamentals of Emergency Health Aid	Burget, AUART						7*	0	0	z	1
AE0DP	Diploma Thesis	Vašek V., AUART						0	0	18	z	18
Subtotal			17					21				

Code	Compulsory elective subjects *)	Kubalčík, AURP	Winter semester					Summer semester				
AE9PM	Advanced Methods of Automatic Control	Kubalčík, AURP	2	0	2	z, zk	6					
AE9RP	Motion Control	Chalupa, AUART	2	0	2	z, zk	6					
Total			21					27				

* 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.