

Study Programme: Applied Informatics in Industrial Automation

Specialization: Intelligent Systems with Robots

Form of Studies: Full-time

Academic Year: 2024/2025

1st Year  
Bc.

Code	Compulsory subjects	Tutors	Winter semester					Summer semester						
			P	S	C	End	Cr	P	S	C	End	Cr		
AE1MA	Seminar of Mathematics	Chudá Hana	2	4	1	z, zk	8							
AE1SP	Software Support of Engineering Computation	Perůtka, AURP	0	0	2	kl	3							
AE3HO	Hardware and Operating Systems	Sysel Martin	2	0	2	kl	4							
AE1PM	Programming Methods	Dulík Tomáš	2	0	2	kl	5							
AE1L1	Introduction to Robotics	Vašek Vladimír	1	0	2	z	2							
AE1FY	Seminar of Physics	Tomášková Hana	2	3	1	z, zk	7							
AE2UM	Introduction to Material Sciences	Maňas Miroslav						2	0	1	z, zk	4		
AE2AI	Automatic Control	Vašek Vladimír						2	3	2	z, zk	7		
AE2MR	Mechanics in Robotic Systems	Vašek Lubomír						2	2	0	z, zk	5		
AE2SD	Data Transfer and Storage Systems	Vojtěšek Jiří, Prokopová Zdenka						1	0	2	kl	5		
AE2EI	Electrotechnics	Adámek Milan						2	2	2	z, zk	6		
AE2LO	Branch Laboratory	Chalupa Petr						0	0	2	kl	3		
SP1	Sport 1	Melichárek Zdeněk						0	0	2	z	1		
<b>In total</b>			<b>26</b>					<b>29</b>					<b>27</b>	<b>31</b>

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

Study Programme: Applied Informatics in Industrial Automation

Specialization: Intelligent Systems with Robots

Form of Studies: Full-time

Academic Year: 2024/2025

2nd Year  
Bc.

Code	Compulsory subjects	Tutors	Winter semester					Summer semester						
			P	S	C	End	Cr	P	S	C	End	Cr		
AE3VK	Selected Chapters in Mathematics	Řezníčková Jana	2	2	0	z, zk	6							
AE3OP	Object-oriented Programming	Král Erik	1	0	2	kl	4							
AE3PP	PLC Programming	Sysala Tomáš	2	0	2	z, zk	6							
AE3IM	Instrumentation and Measurement	Navrátil Milan	2	2	2	z, zk	6							
AE3TA	Technical Means of Automation	Adámek Martin	2	0	2	z, zk	5							
AE3IG	Engineering Graphics	Janošík Václav	0	1	2	kl	4							
SP2	Sport 2	Melichárek Zdeněk	0	0	2	z	1							
AE4AM	Actuators of Mechatronics Systems	Chalupa Petr						2	0	2	z, zk	4		
AE4RM	Managing Material Flows	Maňas Miroslav						2	0	2	kl	4		
AE4SR	Continuous Control	Pekař Libor						2	1	2	z, zk	7		
AE4RL	Production Management and Logistics	Chramcov Bronislav, Kunovský Jan						1	0	3	kl	4		
AE4KR	Construction of Robots and Manipulators	Mizera Aleš						0	1	4	z, zk	6		
AE4L2	Robotics Laboratory 2	Mach Václav						0	0	2	z	2		
SP3	Sport 3	Melichárek Zdeněk						0	0	2	z	1		
In total			26					32		26			28	

Code	Compulsory subjects	Tutors	Winter semester					Summer semester						
			P	S	C	End	Cr	P	S	C	End	Cr		
AE5PP	<b>Programming and Application of Industrial Robots and Manipulators</b>	<i>Vašek Lubomír</i>	1	0	2	z, zk	5							
AE5ES	<b>Embedded Systems with Microcomputers</b>	<i>Vašek Vladimír/Dolinay Jan</i>	2	0	4	z, zk	5							
AE5TE	<b>Heat Processes</b>	<i>Janáčková Dagmar</i>	2	2	1	z, zk	6							
AE5AA	<b>Analog and Digital Technology</b>	<i>Adámek Milan</i>	2	1	2	z, zk	6							
AE5AM	<b>Actuators of Mechatronics Systems</b>	<i>Martínek Tomáš</i>	2	0	2	z, zk	5							
AE5PI	<b>Term Project</b>	<i>Vašek Vladimír</i>	0	1	0	z	1							
SP4	<b>Sport 4</b>	<i>Melichárek Zdeněk</i>	0	0	2	z	1							
AE6ME	<b>Fluid Mechanics</b>	<i>Janáčková Dagmar</i>						2	2	0	z, zk	5		
AE6CS	<b>CAD Systems in Electrical Engineering</b>	<i>Dostálek Petr</i>						0	0	2	kl	3		
AE6MO	<b>Programming of Mobile Applications</b>	<i>Vala Radek</i>						0	1	2	kl	5		
AE6SS	<b>Softskills</b>	<i>Minaříková</i>						0	2	0	z	2		
AE6BA	<b>Bachelor Thesis</b>	<i>Vašek Vladimír</i>						0	0	15	z	16		
	<b>In total</b>							<b>26</b>				<b>29</b>	<b>26</b>	<b>31</b>

The course Bachelor Thesis (BT) 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 BT solution, approval of the BT outline, professional and formal requirements of the written BT, information on the faculty's job search assistance options

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

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