

Study Programme: Applied Informatics in Industrial Automation
Specialization: Intelligent Systems with Robots
Form of Studies: Full-time
Academic Year: 2023/2024

1st Year

Code	Compulsory subjects	Tutors	Winter semester					Summer semester				
			P	S	C	End	Cr	P	S	C	End	Cr
AE1MA	Seminar of Mathematics	Fajkus Martin	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	Novák Jakub	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	Matušů Radek						2	3	2	z, zk	7
AE2MR	Mechanics in Robotic Systems	Stoklásek Pavel						2	2	0	z, zk	5
AE2SD	Data Transfer and Storage Systems	Vojtěšek Jiří, Prokopová Zdenka						1	0	2	kl	5
AE2EI	Electrotechnics	Macků Lubomír						2	2	2	z, zk	6
AE2LO	Branch Laboratory	Husár Jakub						0	0	2	kl	3
SP1	Sport 1	Melichárek Zdeněk						0	0	2	z	1
In total			26					29				
								27				
								31				

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

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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	Dolinay Jan	2	0	2	z, zk	6					
AE3IM	Instrumentation and Measurement	Navrátil Milan	2	2	2	z, zk	6					
AE3MS	Mechatronic Systems	Adámek Milan	2	0	2	z, zk	6					
AE3L2	Robotics Laboratory 2	Husár Jakub	0	0	2	z	2					
SP2	Sport 2	Melichárek Zdeněk	0	0	2	z	1					
AE4TA	Technical Means of Automation	Adámek Martin						2	0	2	z, zk	5
AE2EI	Electrotechnics	Macků Lubomír						2	2	2	z, zk	6
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	4
AE4L3	Robotics Laboratory 3	Mach Václav						0	0	2	kl	2
SP3	Sport 3	Melichárek Zdeněk						0	0	2	z	1
In total			25					31				
								28				
								29				

Code	Compulsory subjects	Tutors	Winter semester					Summer semester				
			P	S	C	End	Cr	P	S	C	End	Cr
AE5PP	Programming and Application of Industrial Robots and Manipulators	Vašek Lubomír	1	0	2	z, zk	5					
AE5ES	Embedded Systems with Microcomputers	Vašek Vladimír/Dolinay Jan	2	0	4	z, zk	5					
AE5TE	Heat Processes	Janáčková Dagmar	2	2	1	z, zk	6					
AE5AA	Analog and Digital Technology	Macků Lubomír	2	1	2	z, zk	6					
AE5AM	Actuators of Mechatronics Systems	Martínek Tomáš	2	0	2	z, zk	5					
AE5PI	Term Project	Vašek Vladimír	0	1	0	z	1					
SP4	Sport 4	Melichárek Zdeněk	0	0	2	z	1					
AE6ME	Fluid Mechanics	Janáčková Dagmar						2	2	0	z, zk	5
AE6CS	CAD Systems in Electrical Engineering	Dostálek Petr						0	0	2	kl	3
AE6UI	Artificial and Computational Intelligence	Komínková Oplatková Zuzana						2	0	2	z, zk	5
AE6SS	Softskills	Minaříková						0	2	0	z	2
AE6BA	Bachelor Thesis	Vašek Vladimír						0	0	15	z	16
In total			26					29				
								27				
								31				

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.