



Lomza State University of Applied Sciences

Faculty of Computer Science and Food Science

Automation and Robotics

1st degree engineering studies with a practical profile

Stationary Studies

Speciality: Process Automation

Speciality: Mechatronics

Winter Semester - from October to February

Lp.	Course name	Exam / Credit	Numbers of hours per semester						ECTS	
			L	D	W	Lab	P	S		SW
Semester 1										
1	Basics of Programming	E	30	15		30			75	6
2	Foreign language 1	C		30					20	2
Semester 3										
1	Algorithms and Data Structures	E	15			30			55	4
2	Introduction to Numerical Methods	E	15			30			30	3
3	Artificial Intelligence	C	15			30			30	3
4	Foreign language 3	C		30					20	2
Semester 5										
1	Process Robotization	Z	15				30		55	4
2	Process Visualization	Z	15				30		30	3
3	Laboratory of basics of robotics	C				45			5	2
<i>Speciality: Process Automation</i>										
4	Computer tools in automation	C	15			30			55	4
<i>Speciality: Mechatronics</i>										
4	Mechatronics Design	E	15			45			65	5
Total		390h	120	75		195			375	33

Summer Semester - from March to June

Lp.	Course name	Exam / Credit	Numbers of hours per semester						ECTS	
			L	D	W	Lab	P	S		SW
Semester 2										
1	Object-Oriented Programming	E	30			30			65	5
2	Introduction to Computer Networks	C	15			30			55	4
3	Foreign language 2	C		30					20	2
4	Basics of Mechanics and Machine Construction	C	30	15			15		40	4
Semester 4										
1	Basics of robotics	E	30			30			65	5
2	Computer Aided Design	E	15			45			65	5
3	Microcontrollers programming	C	15			30			5	2
4	Electric drives	C	15			30			30	3
5	Foreign language 4	C		30					45	3
Total		420h	150	75		195			390	33