



PWSiP

**Państwowa Wyższa Szkoła
Informatyki i Przedsiębiorczości
w Łomży**

**Field of study: Automation and Robotics
First Cycle Studies**

Lp.	Subjetc		Liczba godzin w semestrze							ECTS
			W	Ć	Ps	L	P	S	PW	
Semester 1										
1	Mathematical Analysis	E	30	30					90	6
2	Linear Algebra with Geometry	E	30	30					90	6
3	Engineering Graphics	Z	15	15					70	4
4	Introduction to Information Technology	Z	30	15					80	5
5	Basic of Programming	E	30	15	30				100	7
6	Foreign language 1	Z		30					20	2
Semester 2										
1	Probablistic and Statistical Methods	E	15			30			30	3
2	Discrete Mathematics	E	30	30					65	5
3	Physics	Z	30			30			40	4
4	Basic of Electrotechnology and Metrology	Z	15			30			30	3
5	Object Oriented Programming	E	30		30				90	6
6	Digital Technique	E	30			30			65	5
7	Foreign language 2	Z		30					20	2
8	Physical Education	Z		30					20	2
Semester 3										
1	Algorithms and Data Structures	E	30		30				65	5
2	Database Systems	Z	30		30				65	5
3	Electronics	Z	30			30			40	4
4	Basics of Machine Construction	E	30	30					40	4
5	Signals and Dynamic Systems	Z	15		15				45	3
6	Introduction to Numerical Methods	E	30		15				55	4
7	Artificial Intelligence	Z	15		30				30	3
8	Foreign language 3	Z		30					20	2
Semester 4										
1	CAD	Z	15		30				80	5
2	Basic of Automatics	E	30	30					65	5
3	Digital Measurement Systems	E	30		30				65	5
4	Engine Vision	E	30		30				40	4
5	Industrial Metrology	Z	30			30			40	4
6	Structure of robots and manipulators	Z	15		15				20	2
7	Foreign language	E(B2)		30					75	3

Semester 5

1	Programming Control Systems	E	30		30				65	5
2	Electric Drives	Z	30	-	30				40	4
3	Industrial Robots	E	30			30			65	5
4	Basics of Robotics	E	30		30				65	5
5	Programming of Industrial Robots	Z	30		30				40	4
6	Automatics Laboratory	Z				30			20	2
7	Genetic Algorithms	Z	30		30				15	3
8	Robotics Laboratory	Z				45			5	2

Semester 6

1	Automation of Processes	E	45		45				35	5
2	Robotics Processes	Z	30		30				40	4
3	Sensors and Transducers	E	30		30				40	4
4	Navigation of Mobile Robots	Z	15		30				30	3
5	Corporate project	Z					30		20	2
6	Diploma Seminar I	Z						30	20	2
7	Practice (6 weeks)	Z			240					8

Semester 7

1	Diploma Seminar II	Z						30	20	2
2	Protection of Intellectual Ownership	Z	30	30						2
3	BHP	Z	10						15	1
4	Diploma Thesis	Z							375	15
5	Practice(6 weeks)	Z			240					8