



Major field of study: **Management and Production Engineering**

Level of education: First-cycle studies and full-time study

Educational profile: General academic

### Semester 1

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The English Language I				30				1
2	Recapitulatory Course in Mathematics		10	10					2
3	Linear Algebra		15	15					3
4	Mathematical Analysis I		20	20					4
5	Statistics		30	20				1	5
6	Physics		15	15					3
7	Microeconomics		45	30				1	5
8	Fundamentals of Law		20	10				1	3
9	Information Technologies				24				3
10	Occupational Health and Safety		15						1
11	Introduction to Intellectual Property Protection		4						0
12	Academic good manners		5						0
Total			179	120	54	0	0	3	30
					353				

### Semester 2

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The English Language II				30				1
2	Mathematical Analysis II		30	20				1	5
3	Financial Mathematics		15	15					2
4	Physics		15	15	15				4
5	Macroeconomics		30	20				1	5
6	Economic Law		15	15					2
7	Materials Science		30	10	10			1	4
8	Engineering Graphics		15		24				3
9	Fundamentals of Computer Science		15		24				3
10	History of Mathematics	Alternative	15						1
	History of Music								
Total			180	95	103	0	0	3	30
					378				



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### Semester 3

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The English Language III				30				1
2	Differential equations		15	15					2
3	Logic	Alternative	20	10					2
	Discrete Mathematics								
4	Mechanics for Engineers		15	15					3
5	Fluid Mechanics and Heat Transfer		30	15				1	4
6	Plastics and Composites		15						1
7	Production Processes		30						2
8	Manufacturing Techniques		30						3
9	Laboratory Testing Techniques				30				3
10	Accounting		30	15				1	4
11	Physical Education			30					0
12	Informatics – Visual Basic Programming	Alternative	15		24			1	4
	Informatics – Android Programming								
13	History of Economic Thought	Alternative	15						1
	History of Technology								
Total			215	100	84	0	0	3	30
					399				

### Semester 4

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The English Language IV				30			1	2
2	Mechanics		15	15					2
3	Materials Strength		30	15				1	4
4	Computerized Accounting				24				2
5	Metrology		20	10	15				4
6	Ecology and Environmental Management		20			10			2
7	Finance		30	15				1	4
8	Fundamentals of Management		30	15				1	4
9	Databases		15		24				3
10	Intellectual Property Protection		15						1
11	Physical Education			30					0
12	Business Ethics	Alternative	15		15				2
	Negotiations								
Total			190	100	108	10	0	4	30
					408				



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### Semester 5

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The Specialist English Language I	Alternative			30				2
2	Materials Strength – Laboratory				15				1
3	Quality Management		30						2
4	Fundamentals of Recycling		20			10			2
5	Engineering Design		30			15			4
6	Fundamentals of Marketing		30	15				1	4
7	Production Management		30	15				1	4
8	Programming Languages - C++	Alternative	15		24				3
	Programming Languages - Delphi								
9	Innovations in Technology	Alternative	15						1
	Technology Transfer								
10	Operational Research		15	15					3
11	Elective courses within specialization						45	1	4
Total			185	45	69	25	45	3	30
						369			

### Semester 6

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	The Specialist English Language II	Alternative			30				2
2	Computer-Aided Engineering		15		15				3
3	Fundamentals of Electrical Measuring		15		15				3
4	Fundamentals of Automation		30	15				1	4
5	Laboratory in Fundamentals of Automation				15				1
6	Logistics		15	15				1	3
7	Service Management		15	15					2
8	Costs Accounting for Engineers		15	30				1	5
9	Fundamentals of Research Methodology		15						1
10	Elective courses		15						1
11	Elective courses within specialization						75	1	5
Total			135	75	75	0	75	4	30
						360			



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### Semester 7

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Elective courses within specialization						90		6
2	Elective courses		15						1
3	Elective courses		15						1
4	Seminar and Diploma Thesis					30			18
	Professional traineeship	4 weeks							4
			30	0	0	30	90	0	30
	<b>Total</b>		150						
	<b>Grand Total</b>		<b>1114</b>	<b>535</b>	<b>493</b>	<b>65</b>	<b>210</b>	<b>20</b>	<b>210</b>
			<b>2417</b>						



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### Specialization: Production and Innovation Management

#### Semester 5

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Modelling in Production Engineering		15		15			1	3
2	Technological Documentation					15			1
Total			15	0	15	15	0	1	4
			45						

#### Semester 6

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	New Products Prototyping		15			15			2
2	Product Development in an Enterprise		15			15		1	2
3	Some aspects of materials strength		15						1
Total			45	0	0	30	0	1	5
			75						

#### Semester 7

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Technological Entrepreneurship		10			20			2
2	Computer-Aided Production Management		15		15				2
3	Proecological Engineering		15			15			2
Total			45	0	0	30	0	1	5
			90						



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### Specialization: Business Management

#### Semester 5

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Enterprise Finance Management		20	10				1	2
2	Modelling in Production Engineering		15		15				2
Total			35	10	15	0	0	1	4
Total			60						

#### Semester 6

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Product Development in an Enterprise		15			15			2
2	Human Capital Management		15	15				1	3
Total			30	15	0	15	0	1	5
Total			60						

#### Semester 7

	Subjects	Notes	lecture	classes	laboratory	project	other	exam	ECTS
1	Technological Entrepreneurship		10			20			2
2	Investment Projects Appraisal	<i>Alternative</i>	15						1
	The Firm in the Competitive Market								
3	Evaluation of Investment Undertakings					15			1
4	Marketing Management and Market Research		15	15					2
Total			40	15	0	35	0	0	6
Total			90						