

Curriculum

Year	Sem	Subject name	Weekly number of hours				Practice	ECTS
			Lecture	Tutorial	Labwork	Project		
First Year Compulsory subjects								
1	1	Mathematical Analysis	2	2	0	0		4
1	1	Physics 1	2	0	2	0		5
1	1	Chemistry	2	0	2	0		5
1	1	Computer Programming and Programming Languages 1	2	0	2	1		5
1	1	Fundamentals of Economics 1	2	1	0	0		3
1	1	English for Engineering 1	1	1	0	0		3
1	1	Physical Education and Sport 1	0	2	0	0		3
1	2	Linear Algebra, Analytic and Differential Geometry	2	2	0	0		4
1	2	Physics 2	2	0	1	0		4
1	2	Fundamentals of Economics 2	2	1	0	0		3
1	2	Computer Programming and Programming Languages 2	1	0	2	0		4
1	2	Biotechnology	2	1	0	0		3
1	2	English for Engineering 2	1	1	0	0		3
1	2	Materials Science and Engineering	2	0	1	0		4
1	2	Physical Education and Sport 2	0	2	0	0		1
Optional subjects								
1	1	Organisational Culture	1	1	0	0		2
1	1	European Economic Policies	1	1	0	0		2
1	2	Sociology	2	1	0	0		2
1	2	Psychology	2	1	0	0		2
Facultative subjects								
1	1	The Psychology of Education	2	2	0	0		5
1	1	German Language 1	1	1	0	0		3
1	1	Volunteering 1	0	0	0	0	4	3

1	2	Pedagogy 1	2	2	0	0		5
1	2	German Language 2	1	1	0	0		3
1	2	Volunteering 2	0	0	0	0	4	3
Second Year Compulsory subjects								
2	1	Statistics and Stochastics	2	2	0	0		4
2	1	Mechanics and Strength of Materials	2	0	2	0		4
2	1	Energy Production, Transmission and Distribution	2	0	2	0		4
2	1	Electrical and Electronic Technologies, Equipment and Installations	2	2	0	0		5
2	1	Fundamentals of Management	2	1	0	0		4
2	1	English for Engineering 3	0	2	0	0		2
2	1	Physical Education and Sport 3	0	2	0	0		3
2	2	Special Mathematics	2	2	0	0		5
2	2	Mechanical Technologies and Equipment	2	0	2	0		5
2	2	Marketing	2	2	0	0		4
2	2	Electronic Measurements and Technical Systems	2	0	2	0		4
2	2	Applied Informatics	2	0	1	0		4
2	2	English for Engineering 4	0	2	0	0		2
2	2	Physical Education and Sport 4	0	1	0	0		2
Optional subjects								
2	1	Processing of Business Data	2	0	1	0		4
2	1	Choosing raw materials and semi-finished products	2	0	1	0		4
2	2	Statistical Techniques in Business Processes	2	2	0	0		4
2	2	Business Diagnosis and Evaluation	2	2	0	0		4
Facultative subjects								
2	1	Pedagogy 2	0	2	0	0		2
2	1	German Language 3	0	0	2	0		2
2	1	Volunteering 3	0	0	0	0	4	3
2	2	Didactics of the specialization	2	2	0	0		5

2	2	German Language 4	0	2	0	0		4
2	2	Volunteering 4	0	0	0	0	4	3
Third Year Compulsory subjects								
3	1	Human Resources Management	2	1	0	0		4
3	1	Production Organization	2	1	0	1		6
3	1	Quality Engineering	2	2	0	0		4
3	1	Computer Aided Design and Technical Drawing	2	0	2	0		4
3	1	Fundamentals of Products Manufacturing	2	1	0	0		4
3	1	Risk Assessment Techniques in Industrial Organizations	2	2	0	0		4
3	2	Innovation Management	2	1	0	0		3
3	2	Financial Management	2	2	0	0		3
3	2	Marketing Research	2	1	0	0		3
3	2	Negotiation and Business Ethics	2	2	0	0		3
3	2	Logistics	2	2	1	0		4
3	2	Commercial Legislation	2	1	0	0		3
3	2	Practical Stage (12 weeks)	0	0	0	2	360h	8
Optional Subjects								
3	1	Management Accounting	2	2	0	0		4
3	1	Financial Accounting	2	2	0	0		4
3	2	Cost-Benefit Analysis for Business	2	2	0	0		3
3	2	Business Forecasting	2	2	0	0		3
Facultative subjects								
3	1	Computer aided training	1	1	0	0		2
3	1	Pedagogical practice in compulsory pre-university education (1)	0	3	0	0		3
3	1	Business English	0	2	0	0		4
3	1	German Language 5	0	2	0	0		4
3	1	Volunteering 5	0	0	0	0	4	3
3	2	Pedagogical practice in compulsory pre-university education (2) (12 weeks)	0	3	0	0		2

3	2	Student class management	1	1	0	0		3
3	2	Graduation Exam - Level 1	0	0	0	0		5
3	2	Business English	0	2	0	0		4
3	2	German Language 6	0	2	0	0		4
3	2	Volunteering 6	0	0	0	0	4	3
Fourth Year Compulsory subjects								
4	1	Project Management	2	0	1	1		5
4	1	Simulation of production processes	2	0	2	0		4
4	1	Business Development in services	2	0	2	0		5
4	1	Technology Entrepreneurship	2	2	0	0		5
4	1	Intellectual Property Law	2	1	0	0		3
4	1	Change Management	2	1	0	0		4
4	2	Private International Law	2	1	0	0		3
4	2	Computerized Product Design	2	2	0	2		5
4	2	E-commerce	2	2	0	0		4
4	2	Business Start-up with Innovative Products	2	2	0	2		5
4	2	Management Communication	2	1	0	0		3
4	2	Diploma Project elaboration	0	0	0	4		4
4	2	Diploma Project Internship (60 hours / 2 weeks)	0	0	0	0	30	4
Optional Subjects								
4	1	Sustainable Development	2	2	0	0		4
4	1	Processing of substances and materials	2	2	0	0		4
Facultative Subjects								
4	1	Business English	0	2	0	0		4
4	1	German Language 7	0	2	0	0		4
4	1	Volunteering 7	0	0	0	0	4	3
4	2	Business English	0	2	0	0		4
4	2	German Language 8	0	2	0	0		4
4	2	Volunteering 8	0	0	0	0	4	3