

Year	Sem	Subject name	Weekly number of hours				ECTS
			Lecture	Tutorial	Labwork	Project	
First Year Compulsory subjects							
1	1	Technical Mechanics	2		2		5
1	1	Chemistry	2		2		4
1	1	Linear algebra, analytic and differential geometry	2	2			5
1	1	Computer Programming 1 *	2		2	2	5
1	1	Materials Science	2		2		5
1	1	English language *	1		1		4
Optional Subjects							
1	1	Foreign Language 1 (French)	1		1		2
		Foreign Language 1 (Romanian)					
Elective Courses							
1	1	Sport**		1			2
1	1	Ethics	2	2			5
1	1	Psychology of education	2	2			5
1	1	Volunteering 1				4	3
Compulsory subjects							
1	2	Mechanics of Materials 1	2	2	1	0	5
1	2	Mathematical analysis	2	1	0	0	4
1	2	Physics	2	0	2	0	5
1	2	Communication*	2	0	2	0	4
1	2	Computer Programming 2 *	2	0	2	2	6
1	2	Introduction to Digital Manufacturing	2	0	1	0	3
Optional Subjects							
1	2	European Culture and Civilization	2	1			3
		European Integration					
Elective Courses							
1	2	Sport**		1			2
1	2	Foreign Languages 2 - French	1		1		5
1	2	Foreign Language 2 - Romanian	1		1		5
1	2	Pedagogy 1	2	2			5
1	2	Volunteering 2				4	3
Second Year Compulsory subjects							
2	1	Technical Drawing	2	1	2		6
2	1	Mechanics of Materials 2	2	2	2		7
2	1	Probability and Statistics	2	2			5
2	1	Computer Aided Design 1	2		2		6
2	1	Computer Programming 3 *	2		2	2	6
Elective Courses							
2	1	Sport**		1			2
2	1	Foreign Languages 3 - French	2		2		5
2	1	Volunteering 3				4	3
2	1	Pedagogy 2	2	2			5
2	1	Foreign Languages 3 - Romanian	2		2		5

Compulsory subjects							
2	2	Tolerances Design	2		2	1	4
2	2	Materials Technology	2		2	1	5
2	2	Economics	3	1			4
2	2	Computer Aided Design 2	2		2	1	5
2	2	Machine Elements	2		1	2	5
2	2	Practical stage 1	90 hours / 2 weeks				4
Optional Subjects							
2	2	Modelling and Simulation	2		1		3
		Mechanical Vibrations					
Elective Courses							
2	2	Sport**		1			2
2	2	Practical stage 1	90 hours / 2 weeks				4
2	2	Foreign Languages 4 - French	2		2		5
2	2	Foreign Languages 4 - Romanian	2		2		5
2	2	Didactics of Specialization	2	2			5
2	2	Volunteering 4				4	3
Third Year Compulsory subjects							
3	1	Mechanical Systems Design	2		2		4
3	1	Industrial Internet of Things	2		2		4
3	1	System and Project Management*	2			2	6
3	1	Manufacturing Processes 1	2		2		6
3	1	Computer Aided Engineering	2		1	2	6
Optional Subjects							
3	1	Fundamentals of Cyber Security	2		2		4
		Finite Element Analysis of Solids					
Elective Courses							
3	1	Psychology	2		2		5
3	1	Cyber Security	2		2		4
3	1	Computer Assisted Training	1	1			2
3	1	Pedagogical Practice in Pre-university Education 1	42 hours (14 weeks x 3h/week)				3
3	1	Volunteering 5				4	3
Compulsory subjects							
3	2	Production and Operation Management	2		1	2	4
3	2	Machine Tools	2		1	1	3
3	2	Robotics	2		2		4
3	2	Manufacturing Processes 2	2		1		2
3	2	Manufacturing Processes 2 - Project				2	2
3	2	Engineering Economics	2	1			3
3	2	Practical Stage 2	270 hours				6
Optional Subjects							
3	2	Supply Chain Management	2			2	3
		Instrumentation and Measurement					
3	2	Industrial Management	2	1		2	3
		Quality Engineering					
Elective Courses							
3	2	Volunteering 6				4	3
3	2	Student Class Management	36 hours (12 weeks x 3 hours/week)				3
3	2	Graduation Exam: Level 1					5

3	2	Pedagogical Practice in Pre-university Education 2				4	3
Fourth Year Compulsory subjects							
4	1	Computer Aided Manufacturing	2		2	2	7
4	1	Industrial Logistics	2		1	2	6
4	1	Product Design and Development	2		2		5
4	1	Product Design and Development - Project				2	2
4	1	Integrated Production Systems	3		1	2	7
Optional Subjects							
4	1	Leadership Lab	1		1		3
		Internship Lab					
Elective Courses							
4	1	Intercultural cooperation	2	2			5
4	1	Volunteering 7				4	3
Compulsory subjects							
4	2	Entrepreneurship and Innovation*	4			2	6
4	2	Technology Strategy	3			3	7
4	2	Quality Assurance	3		2	2	7
4	2	Diploma project internship	60 hours (2 weeks x 30 hours/week)				6
4	2	Diploma project elaboration				4	4
Elective Courses							
4	2	Organizational Management	2	2			5
4	2	Augmented and Virtual Reality for Engineering	2		3		3
4	2	Volunteering 8	75 hours				3
NB	<i>* courses to be selected by Erasmus Incoming students, as part of the European Project Semester; other courses may be selected upon request</i> <i>**Two SPORT semesters will be mandatory for all four years</i>						