

	Code	Course	Student workload (L + S + T)	ECTS credits
1 st semester (winter)	184697	Selected topics from Mechanics and Strength*	30+0+30	6
	184698	Construction Modules	30+15+15	6
	184699	New Engineering Materials*	30+30+0	5
	184700	Modern Production Technologies*	30+0+30	5
	184701	Industrial Design*	30+15+0	4
	184702	Production Economics*	15+15+15	4
2 nd semester (summer)	184708	Numerical Modelling *	30+15+15	6
	184709	Behaviour of the Materials in Exploitation*	30+15+15	6
	184710	Robotics in Manufacturing*	30+15+15	5
	184711	Ecological and Energy Industrial Design *	30+15+0	5
	184712	<i>Mechaatronics Systems</i>	<i>15+15+15</i>	<i>4</i>
	194013	<i>Lean Production*</i>	<i>15+15+15</i>	<i>4</i>
	184715	<i>HVAC Systems</i>	<i>15+15+15</i>	<i>4</i>
		<i>Thermomechanical processes and Equipment</i>	<i>15+15+15</i>	<i>4</i>
		<i>Engineering Ergonomics</i>	<i>15+15+15</i>	<i>4</i>
		<i>Documentation in Production of Welded constructions</i>	<i>15+15+15</i>	<i>4</i>
	<i>Production Safety Management</i>	<i>15+15+15</i>	<i>4</i>	
3 rd semester (winter)	207219	Optimization of Constructions	30+15+15	6
	207220	Prototype 3D Modelling	30+15+15	6
	207221	Certification of Products and Systems*	30+15+15	5
	207222	Materials and Constructions testing methods	30+15+0	5
	207224	<i>Industrial Process Measurements*</i>	<i>15+15+15</i>	<i>4</i>
	207226	<i>Environmental engineering</i>	<i>15+15+15</i>	<i>4</i>
		<i>Project management, Innovations and Start Ups*</i>	<i>15+15+15</i>	<i>4</i>
		<i>Intelligent Systems</i>	<i>15+15+15</i>	<i>4</i>
		<i>Materials in Pharmaceutical and Food industries</i>	<i>15+15+15</i>	<i>4</i>
		<i>FEM in Engineering Design</i>	<i>15+15+15</i>	<i>4</i>
		<i>Modern technologies in Engineering Maintenance</i>	<i>15+15+15</i>	<i>4</i>
		<i>Materials Weldability and welding errors</i>	<i>15+15+15</i>	<i>4</i>
4 th semester (summer)	207227	Business communication and presentation	15+15+15	5
	207228	Methods of scientific research	15+15+15	5
	207229	Master Thesis		20

L - LECTURES, S - SEMINARS, T – TUTORIALS

Elective courses in italic

Courses available in English Language *