

# COURSE CATALOG – MECHANICAL ENGINEERING

Type of Study: Undergraduate professional study

Semesters: 6

ECTS: 180

	Code	Course	Student workload (L + S + T)	ECTS credits
1st semester (Winter)	129428	IT and Application*	15 0 30	4.0
	129429	Mathematics I*	45 0 45	6.0
	129430	Materials I	30 0 30	6.0
	129431	Mechanics I*	30 0 45	6.0
	129433	Engineering Calculation Methods*	15 0 15	2.0
	129434	Social Philosophy*	15 15 0	2.0
	129436	Technical Presentation Skills*	15 0 30	4.0
2nd semester (Summer)	129437	Design in 2D	0 0 30	2.0
	129439	Machine Elements I	30 0 30	6.0
	129441	Mathematics II*	45 0 45	6.0
	129447	Materials II	30 0 30	6.0
	129448	Mechanics II*	30 0 45	6.0
	129454	Software Tools I*	15 0 30	4.0
3rd semester (Winter)	129456	Production Machinery	15 0 15	2.0
	129457	Stress Analysis*	30 0 30	5.0
	129458	Machine Elements II	30 0 30	6.0
	129460	Electrical Engineering and Electronics	30 0 30	5.0
	129461	Statistics	30 0 30	5.0
	129463	Thermodynamics	30 0 30	5.0
	<b>129466</b>	<b>Foreign Language I - English*</b>	<b>15 0 15</b>	<b>2.0</b>
4th semester (Summer)	129469	Fluid Mechanics*	30 0 30	5.0
	129471	Production Management	30 0 45	5.0
	129473	Fundamentals of Entrepreneurship	15 15 0	2.0
	129474	Professional Training I	0 0 0	4.0
	129476	Production Techniques I	30 0 45	6.0
	<b>129479</b>	<b>Foreign Language II - English*</b>	<b>15 0 15</b>	<b>2.0</b>
	<b>129481</b>	<b>Renewable Energy Sources*</b>	<b>15 0 30</b>	<b>3.0</b>
	<b>129482</b>	<b>Joining Techniques</b>	<b>15 0 30</b>	<b>3.0</b>
	<b>129483</b>	<b>Design in 3D</b>	<b>15 0 30</b>	<b>3.0</b>
	<b>129485</b>	<b>Human Resources Management</b>	<b>15 0 30</b>	<b>3.0</b>
	<b>129487</b>	<b>Choice from other HEI 1 – 4th semester</b>	<b>15 0 30</b>	<b>3.0</b>
	<b>129488</b>	<b>Choice from other HEI 2 – 4th semester</b>	<b>15 0 30</b>	<b>3.0</b>
	5th semester (Winter)	129490	CNC Machining Systems	30 0 30
129491		Production Measurements	15 0 30	4.0
129492		Industrial Maintenance	30 0 30	4.0
129493		Production Techniques II	30 0 30	6.0
129494		Production Process Planning	30 0 30	5.0
<b>129495</b>		<b>Pneumatics and Hydraulics</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129496</b>		<b>Software Tools II*</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129498</b>		<b>Refrigeration</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129500</b>		<b>Fundamentals of Mechanical Operations</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129501</b>		<b>Surface engineering</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129502</b>		<b>Choice from other HEI 1 – 5th semester</b>	<b>15 0 30</b>	<b>3.0</b>
<b>129503</b>		<b>Choice from other HEI 2 – 5th semester</b>	<b>15 0 30</b>	<b>3.0</b>
6th semester (Summer)		129504	Quality Control	30 0 30
	129506	Professional Training II	0 0 0	5.0
	129507	Production Techniques III	30 0 30	6.0

129508	Final Year Project	0 0 0	15.0

L - LECTURES, S - SEMINARS, T – TUTORIALS

*Elective courses in italic*

**\* Courses available in English**