

**FACULTY OF  
MECHANICAL  
ENGINEERING  
AND  
DESIGN**

- Bachelor's degree programme of **MECHANICAL ENGINEERING**
- Bachelor's degree programme of **MECHATRONICS**
- Bachelor's degree programme of **VEHICLE ENGINEERING/ AVIATION ENGINEERING**
- Courses from the Bachelor's degree programme **FASHION ENGINEERING/ TEXTILE ENGINEERING**
- Master's degree programme of **INDUSTRIAL ENGINEERING AND MANAGEMENT**
- Master's degree programme of **MECHANICAL ENGINEERING**
- Master's degree programme of **MECHATRONICS**
- Courses from the Master's degree programme **FASHION ENGINEERING/ TEXTILE ENGINEERING**

**DISCRETE COURSES**

**Bachelor's degree programme  
MECHANICAL ENGINEERING**

2<sup>nd</sup> semester

<a href="#">P130B002</a>	Mathematics 2	6
<a href="#">P190B101</a>	Physics 1	6
<a href="#">P190B231</a>	Theoretical Mechanics	6
<a href="#">T450B103</a>	Materials Science and Engineering	6
<a href="#">H570B104</a>	Academic and Technical Communication in English (Level C1)	6

4<sup>th</sup> semester

<a href="#">T200B109</a>	Applied Thermodynamics and Hidromechanics	6
<a href="#">T190B270</a>	Electrical and Electronic Circuits	6
<a href="#">T210B147</a>	Structural Integrity	6
<a href="#">T210B200</a>	Machine Dynamics	6

**Bachelor's degree programme  
MECHATRONICS**

2<sup>nd</sup> semester

<a href="#">P130B002</a>	Mathematics 2	6
<a href="#">P190B101</a>	Physics 1	6
<a href="#">P190B231</a>	Theoretical Mechanics	6
<a href="#">T210B001</a>	Fundamentals of Mechatronics	3
<a href="#">T450B102</a>	Materials Engineering	3
<a href="#">H570B104</a>	Academic and Technical Communication in English (Level C1)	6

4<sup>th</sup> semester

<a href="#">T190B270</a>	Electrical and Electronic Circuits	6
<a href="#">T210B501</a>	Strength of Structural Elements	3
<a href="#">T200B109</a>	Applied Thermodynamics and Fluid Mechanics	6
<a href="#">T130B033</a>	Computer-Aided Design 1	6

**6<sup>th</sup> semester**

<a href="#">T120B007</a>	Microprocessor Technique	6
<a href="#">T130B012</a>	Manufacturing Engineering	6
<a href="#">T125B001</a>	Automatic Control Fundamentals	6
<a href="#">T170B140</a>	Semester Project	6

**Courses from the Bachelor's degree programme  
FASHION ENGINEERING/ TEXTILE ENGINEERING**

Course code	Course title	ECTS Credits	Semester
<a href="#">T150B189</a>	Computer-aided Design of Clothing 1*	6	spring
<a href="#">T150B171</a>	Clothing Technology*	9	spring
<a href="#">T470B131</a>	Design and Technology of Knits*	6	spring
<a href="#">T150B194</a>	Workshop of Fashion Product*	6	spring
<a href="#">T470B147</a>	Design and Technologies of Woven Fabrics*	6	spring
<a href="#">T150B144</a>	Clothing Manufacturing*	6	spring
<a href="#">T470B142</a>	Nonwoven Textiles*	3	spring
<a href="#">PR00B123</a>	Semester Project*	6	autumn/spring

**Courses from the Bachelor's degree programme  
VEHICLE ENGINEERING/ AVIATION ENGINEERING**

Course code	Course title	ECTS Credits	Semester
<a href="#">T200B115</a>	Fluid Mechanics and Thermodynamics*	6	spring

**Master's degree programme  
FASHION ENGINEERING/ TEXTILE ENGINEERING\***

Course code	Course title	ECTS Credits	Semester
<a href="#">T470M125</a>	Advanced and Specialized Textile Processing	6	autumn/ spring
<a href="#">W230M010</a>	Industrial Design of Fashion Collections	6	spring
<a href="#">T150M128</a>	Simulation of Clothing Exploitation Processes*	6	spring
<a href="#">T000M186</a>	Research Project 1	6	spring
<a href="#">T470M133</a>	Engineering of Functional and Interactive Textile*	6	spring
<a href="#">T150M136</a>	Digital Technologies of Clothing Production*	6	spring

**\*Important note!**

Particular elective course will be offered only if a sufficient number of students register for the course.

**Master's degree programme**  
**INDUSTRIAL ENGINEERING AND MANAGEMENT**

**2<sup>nd</sup> semester**

<a href="#">T210M134</a>	Industrial Maintenance	6
<a href="#">T130M020</a>	Engineering Operations Strategy	6
<a href="#">S191M013</a>	Industrial Marketing	6
<a href="#">T210M023</a>	Computer-Aided Analysis of Structures	6

**Master's degree programme**  
**MECHANICAL ENGINEERING**

**2<sup>nd</sup> semester**

<a href="#">T210M203</a>	Applied Fluid Dynamics	6
<a href="#">T210M513</a>	Computational Solid Mechanics	6
<a href="#">T210M110</a>	Dynamics of Mechatronic Systems	6

**Master's degree programme**  
**MECHATRONICS**

**2<sup>nd</sup> semester**

<a href="#">T125M262</a>	Computer-Aided Control of Technological Equipment	6
<a href="#">T130M833</a>	Computer Integrated Manufacturing	6
<a href="#">T000M125</a>	Research Project 1	6

**DISCRETE COURSES\***

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">T150B184</a>	Basics of 3D design	9	spring
<a href="#">T130B009</a>	Media Publishing Technologies	6	spring
<a href="#">W200B103</a>	User experience design	6	spring
<a href="#">W240B102</a>	Bionics & Design	3	spring
<a href="#">W240B010</a>	Product Design	6	spring
<a href="#">W240B100</a>	Sketch	6	spring
<a href="#">W210B705</a>	Graphic Design	6	spring
<a href="#">W200B104</a>	Image Design and Communication	3	autumn/ spring

**\*Important note!**

Particular discrete course will be offered only if a sufficient number of students register for the course.