

## Study programme MECHANICAL ENGINEERING

Classification by KLASIUS (SRV): **16101 – Higher vocational education**

Classification by KLASIUS (P): **5200 – Engineering**

*Level of qualification:* **Higher undergraduate (higher vocational education)**

*Official length of study programme:* **2 years**

Number of lectures and exercises: **1200 hours**

Practical training: **800 hours**

Number of credit points under ECTS: **120 credit points**

*Study programme details:*

Module/Subject/Other component	Year	Number of hours				Total student load	Credit points (ECTS)
		LE	SE	LW	Total		
Professional Terminology in a Foreign Language	1	48	36		84	180	6
Business Communication and Management	1	48		36	84	180	6
Computer Science	1	24		48	72	180	6
Mechanics 1	1	36	24	12	72	150	5
Electrical Engineering	1	36		24	60	150	5
Materials	1	36	12	12	60	150	5
Work Safety and Environmental Protection	1	24	12		36	84	3
Technical Regulations and Product Planning	1	36		36	72	180	6
Machine Elements	1	36		24	60	150	5
Practical Training	1					400	13
Company Economics	2	48	24	12	84	210	6
Quality and Reliability of Processes	2	36	12	24	72	150	5
Mechanics 2	2	60		12	72	150	5
Technology	2	48		48	96	210	7
Automation and Robotics	2	48		48	96	210	7
Product Design and Engineering	2	48	24	36	108	210	7
Toolmaking and Maintenance	2	36		36	72	150	5
Practical Training 8	2					400	13
Final Thesis	2					150	5

Note: LE – lecture, SE – seminar exercises, LE – laboratory work

*Professional status:*

A mechanical engineer may, on the basis of acquired generic and specific vocational knowledge and skills obtained in the course of studies, be employed in the following positions:

- line manager,
- project manager,
- documentation maker,
- sales engineer,
- maintenance manager,
- quality assurance manager,
- CNC machine tool programmer,
- CNC manufacturing and measuring machine tool operator,
- toolmaker and designer,
- sole trader.

## MECHATRONIC ENGINEER

Classification by KLASIUS (SRV): **16101 – Higher vocational education**

Classification by KLASIUS (P): **5200 – Engineering**

*Level of qualification:* **Higher undergraduate (higher vocational education)**

*Official length of study programme:* **2 years**

Number of lectures and exercises: **1200 hours**

Practical training: **800 hours**

Number of credit points under ECTS: **120 credit points**

Module/Subject/Other component	Year	Number of hours				Total student load	Credit points (ECTS)
		L	SW	LP	Total		
Professional Terminology in a Foreign Language	1	48	36		84	180	6
Business Communication and Management	1	48	36		84	180	6
Computer and Information Science	1	24		48	72	120	5
Basics of Electrotechnics	1	42		24	66	150	6
Mechatronics Systems 1	1	42		48	90	178	7
Measurements	1	42		48	90	178	7
Basis of Mechanical engineering	1	42		24	66	150	6
Sustainable development	1	36	12		48	120	4
Practical Training	1					400	13
Company Economics	2	48	12	24	84	180	6
Mechatronics Systems 2	2	36		48	84	156	6
Technical Standards and Project Design	2	36	24	12	72	144	5
Communication Technologies and Services	2	36		36	72	144	5
Programming in Automatics	2	36		36	72	144	5
Technological Processes	2	36		36	72	144	5
Robot Systems 1	2	36		36	72	144	5
Drives and Mechanisms	2	36		36	72	144	5
Practical Training	2					180	13
Final Thesis	2					150	5

*Professional status:*

A mechatronic engineer may, on the basis of acquired generic and specific vocational knowledge and skills obtained in the course of studies, be employed in the following positions:

- planning and implementing mechatronic systems,
- designing and building automated lines and machines,
- maintenance on automated production lines,
- robot cell planning,
- programming robots,
- mechatronic product development,
- servicing complex mechatronic products,
- preparing tender documentation,
- project management,
- sole trader.