The field of the study: **Mechanical engineering**
Educational level: **first - cycle studies**
Level of qualifications (PRK): **6**
Education profile: **general academic**
The field of engineering and technical sciences
Science discipline: **mechanical engineering**

Course (name)

| No. | Symbol of the field of study learning outcomes (EKK) | Study learning outcomes (KEU) | 1 Mathematics | 2 Physics | 3 Chemistry | 4 Engineering mechanics | 5 Strength of materials | 6 Fluid mechanics | 7 Fundamentals of metallurgy and metal forming | 8 Engineering graphics | 9 Materials science | 10 Theory of machines | 11 Environmental protection and ecology | 12 Work safety and ergonomics | 13 Technologies of Industry 4.0 | 14 Electrical theory | 15 3D CAD systems | 16 Manufacturing Engineering | 17 Basics of electronic systems and automation | 18 Basics of electrical engineering and electronics | 19 Fundamentals of control theory | 20 Fundamentals of technical diagnostics and reliability | 21 Telecommunication system design | 22 Measurement and Regulation | 23 Machine construction | 24 Production processes and materials | 25 Programming and numerical methods | 26 Electrical tool | 27 Kinematics and dynamics of machines and mechanisms | 28 Mechanics of structures | 29 Microcontroller design | 30 Computer vision design | 31 Fluid movement methods II | 32 Basics of electrical machines | 33 3D Printing | 34 Computer Aided Engineering | 35 Numerical modeling of flows and processes | 36 Industrial Controllers PLC | 37 Control project | 38 Optimization of construction | 39 Embedded systems | 40 Computer graphics and visualization techniques | 41 Automation of CAD/CAE/CAM systems | 42 ERP systems | 43 Waste engineering | 44 Industrial robots | 45 Measurement of quality parameters | 46 Reverse engineering | 47 Spatial kinematics | 48 Fluid movement methods | 49 Dimensional accuracy in the construction of machine parts | 50 CNC milled tools | 51 Metrology and Applied Measurements | 52 Measurement of mechanical quantities | 53 Design of load-bearing structures | 54 Design of rotary devices | 55 Bladed tool | 56 Modernization and repair of machines | 57 CAM systems | 58 Design of production tool | 59 Programming of CNC machine tools | 60 Design of technological processes | 61 Design of technological processes in metal plastic forming | 62 Metrological assurance of quality of products | 63 Control project | 64 Control engineering | 65 Computer assisted measurements | 66 Methods of assembly of machines | 67 Automation and electrical engineering in production processes | 68 Quality management in the enterprise | 69 Machine construction | 70 Rheological engineering | 71 Physical and chemical basis of electrochemistry | 72 Physical and chemical properties of plastics and composites | 73 Production and operation of plastic products | 74 Foreign language | 75 Physical education | 76 Apprenticeship | 77 Diploma seminar | 78 Preparation and defense of engineering thesis |
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