

**Bachelor Program: Design and Technological Support of Machine-Building Industries**  
**Study Program: Technology of Mechanical Engineering**

**Duration: 2 years of study**

**Language of Training: Russian**

<b>№</b>	<b>Subject</b>	<b>Semester</b>	<b>Hours</b>	<b>Credits</b>
<b>B.1.1</b>	<b>Basic part</b>			
B.1.1.1	History	1	108	3
B.1.1.2	Philosophy	4	108	3
B.1.1.3	Foreign language	1,2,3	288	8
B.1.1.4	Economics	2	108	3
B.1.1.5	Mathematics	1,2,3,4	540	15
B.1.1.6	Physics	2,3,4	360	10
B.1.1.7	Chemistry	1	144	4
B.1.1.8	Computer Science	1,2	216	6
B.1.1.9	Theoretical Mechanics	2,3	216	6
B.1.1.10	Descriptive Geometry	1	180	5
B.1.1.11	Engineering and Computer Graphics	2,3,4,	396	9
B.1.1.12	Resistance of Materials	4,3	216	/6
B.1.1.13	Machine Parts and Design Basics	5	180	5
B.1.1.14	Technological Processes in Mechanical Engineering	3	216	6
B.1.1.15	Health and Safety	7	108	3
B.1.1.16	Electrical Equipment and Electronics	4	216	6
B.1.1.17	Metrology, Standardization and Certification	5	144	4
B.1.1.18	Fundamentals of Technology of Mechanical Engineering	6	180	5
B.1.1.19	Russian language and Speech Culture	2	108	3
B.1.1.20	Physical Education	1	72	2
<b>B.1.2</b>	<b>Variable part</b>			
B.1.2.1	History of Science and Technology	2	72	2
B.1.2.2	Business Communication in a Foreign Language	4	72	2
B.1.2.3	Vocational-oriented Communication in a Foreign Language	5	72	2
B.1.2.4	Ecology	4	72	2
B.1.2.5	Systems and Process Management	5	108	3
B.1.2.6	Basics of Innovative Machine Building	1	72	2
B.1.2.7	Economics of enterprise	6	72	2
B.1.2.8	Technology of Mechanical Engineering	7,8	360	/10
B.1.2.9	Automation of Production Processes in Mechanical Engineering	7	144	4
B.1.2.10	Industrial Equipment	6	144	4
B.1.2.11	Cutting Tools	5,6	288	8
B.1.2.12	Metal-cutting Machines	6,7	252	7
B.1.1.13	Mechanism and Machine Theory	3	180	5
B.1.2.14	Automatic Control Theory	5	108	3
B.1.2.15	Forming Processes and Operations	5	144	4
B.1.2.16	Equipment of Machine-building Productions	5	108	3

B.1.2.17	Hydraulics	6	108	3
B.1.1.18	Materials science	4	108	3
<b>B.1.3</b>	<b>Optional Subjects</b>			
B.1.3.1.1	Psychology	1	108	3
B.1.3.1.2	Engineering Psychology	1	/108	/3
B.1.3.2.1	Project Cost Effectiveness Assessment	8	72	2
B.1.3.2.2	Project Feasibility Study	8	/72	/2
B.1.3.3.1	Mathematical Modeling of Technological Processes	6	144	4
B.1.3.3.2	Thermophysics of Technological Processes	/6	/144	/4
B.1.3.4.1	Technical Measurements	5	72	2
B.1.3.4.2	Interchangeability Basics	5	/72	/2
B.1.3.5.1	Integrated Computer Engineering and Manufacturing Technologies	7	108	3
B.1.3.5.2	Product Lifecycle Information Systems	7	/108	/3
B.1.3.6.1	Die and Press Design	8	180	5
B.1.3.6.2	Technology of Repair of Vehicle Mechanisms and Assemblies	/8	/180	/5
B.1.3.7.1	Stamping and Pressing Equipment	7	108	3
B.1.3.7.2	Equipment of Repair Production	7	/108	/3
B.1.3.8.1	Technology of Cold Stamping	7	144	4
B.1.3.8.2	Arrangement of Vehicle and Motor units and assemblies	/7	/144	/4
B.1.3.9.1	Automation of Forming Production	7	108	3
B.1.3.9.2	Vehicle Electrical Equipment and Repair	7	/108	/3
B.1.3.10.1	Design of cold Stamping Shops	8	108	3
B.1.3.10.2	Design of Auto repair Areas and orkshops	8	/108	/3
B.1.3.11.1	Team sports	2-6	328	0
B.1.3.11.2	Sports	2-6	328	0
<b>B.2</b>	<b>Practices (variable part)</b>			
B.2.1	Educational practice *	2	108	3
B.2.2	1st Industrial Practice * *	4	108	3
B.2.3	2nd Industrial Practice * *	6	216	6
B.2.4	Research and Industrial practice	8	108	3
B.2.5	Internship	8	216	6
<b>B.3</b>	<b>State final examination (the basic part)</b>		216	6
	<b>TOTAL in the field of study</b>		<b>8968</b>	<b>240</b>