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| Bachelor Degree in speciality: **Manufacturing engineering and technologies**Semester: 6 (summer)Course code: 38 „ PRODUCTION TECHNOLOGIES PART 1” |
| ECTS credits: 6Grade form: Exam | Weekly classes: 2h lections + 2h exercisesEvaluation by: Exam based on test  |
| The course is held in: Department of MANUFACTURING TECHNOLOGIES AND MACHINE TOOLSFACULTY OF MANUFACTURING ENGINEERING AND TECHNOLOGIES |

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| Lecturer: Assist. Eng. Tanya Avramova, PHDDepartment of MANUFACTURING TECHNOLOGIES AND MACHINE TOOLS  |

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| **Course Description**: The main aim of the discipline „MECHANICAL ENGINEERING TECHNOLOGY PART 1” is within the academic year the students acquire knowledge on technological processes for the manufacturing of products with a predetermined quality, a fixed production program and a minimal technological costs. It examines the technological characteristics of the basic methods of preparation of blanks, machining, finishing processes, assembling of the devices used in mechanical engineering.Within the lectures are considered types of production and their classification, technology of blanks, technological operations in the metalworking industry, the performance and the processes for machining, unconventional treatment methods and technology of assembling products.The laboratory exercises address the determination of the types of production, the choice of blanks and the determination of the interoperative dimensions of the parts, the design of technological operations for machining and the design of technological processes for assembling. |
| **Basic topics of the course:** * Structure, elements and content of the technological process;
* Technology of the blanks;
* Technological operations in metalworking - types, principle schemes and ability to manage quality parameters;
* Unconventional methods of processing;
* Assembly of the products.
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