

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Theory of Machines | | Code 1011101321011122435 |
| Field of study Logistics - Full-time studies - First-cycle studies | Profile of study (general academic, practical) (brak) | Year /Semester 1 / 2 |
| Elective path/specialty - | Subject offered in: Polish | Course (compulsory, elective) elective |
| Cycle of study: First-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: - | | No. of credits 3 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art | | ECTS distribution (number and %) |
| Responsible for subject / lecturer: dr hab. inż. Józef Gruszka, prof. nadzw.. PP email: jozef.gruszka@put.poznan.pl tel. 665 33 77 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań | | |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | Basic knowledge of technology |
| 2 | Skills | The ability to acquire knowledge |
| 3 | Social competencies | The ability to work in a group |
| Assumptions and objectives of the course: To familiarize students with the basic principles of construction, operation and operation of general purpose machines and equipment, which are equipped in an industrial plan | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. 1. Has a basic knowledge of: engineering graphics; design, technology, the construction and operation of machinery - [K1A_W05] - [-] 2. 2. Has a basic knowledge of: mechanics and machine-building industry as well as the strength of materials - [K1A_W07] - [-] | | |
| Skills: | | |
| 1. 1. Is able to independently develop the problem that exists within the studied subject - [K1A_U05] - [-] 2. 2. Can make use of analytical, experimental and simulation method which falls within the scope of this area, can solve the project problem in the area of logistics and its detailed concepts (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management - [K1A_U09] - [-] | | |
| Social competencies: | | |
| 1. Is aware of the need for lifelong learning; inspiring and organizing the learning process of other persons within the framework of the studied subject areas - [K1A_K01] - [-] 2. Is willing to work together and work in a group on the resolution in the framework of the studied subject - [K1A_K03] - [-] | | |
| Assessment methods of study outcomes | | |

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| <p>-Formative assessment:</p> <p>a) within the scope of the laboratory: on the basis of an assessment of the current progress of the assigned tasks related to the construction, operation and operation of general purpose machinery and equipment.</p> <p>b) in lectures: on the basis of answers to questions about material modified in previous lectures.</p> <p>Summary summary:</p> <p>a) lecture - written test on the basis of previously prepared questionnaire</p> <p>b) Written assignment of assigned tasks related to the construction, operation and operation of general purpose machinery and equipment within individual visits to production sites.</p> | | |
| Course description | | |
| <p>Program content:</p> <p>lectures:</p> <ul style="list-style-type: none"> - Introduction to subject matter, basic concepts, machine classification, - standardization, typisation and unification of machine parts and subassemblies, - Clutches, brakes, gears, - Mechanisms used in machine tools, - Machines and devices for transport, trolleys, cranes, overhead cranes, cranes, conveyors, - Compressors and fans, - Pumps, water motors, turbines - Installations, pneumatic, hydraulic, - Refrigeration equipment, - Internal combustion engines <p>Laboratories: To familiarize yourself with the construction, operation and operation of general purpose machinery and equipment as part of technical visits to production sites.</p> <p>Didactic methods:</p> <p>lectures; monographic with the use of a computer with the division of the content of the program into separate thematic issues in connection with the subject of the laboratory</p> <p>Laboratories: visits to production facilities in the field of familiarization with the operation and operation of general purpose machinery and equipment</p> | | |
| Basic bibliography: | | |
| Additional bibliography: | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. Lectures | 15 | |
| 2. Preparation for the exam | 30 | |
| 3. Consultation | 15 | |
| 4. Literature studying | 20 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 80 | 3 |
| Contact hours | 30 | 1 |
| Practical activities | 0 | 0 |