



Subject card

| | | | | | | | |
|---|--|--|---|-------------------------------------|--|------------|-----|
| Subject name and code | Maintenance management, PG_00055241 | | | | | | |
| Field of study | Management and Production Engineering | | | | | | |
| Date of commencement of studies | October 2021 | | Academic year of realisation of subject | | 2023/2024 | | |
| Education level | first-cycle studies | | Subject group | | Optional subject group Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 3 | | Language of instruction | | Polish | | |
| Semester of study | 5 | | ECTS credits | | 1.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Sławomir Szymański | | | | |
| | Teachers | | dr inż. Sławomir Szymański | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 15 | | 2.0 | | 8.0 | 25 |
| Subject objectives | Acquiring knowledge in the field of operation logistics, machines and production systems Understanding the principles of selecting machines in terms of durability, reliability and requirements related to technical service Mastering the skills of organizing a material management system in operation logistics Ability to plan maintenance and repair works and their material protection | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W11] knows and understands the basic concepts and principles of the protection of industrial property and copyright law, can use the resources of patent information | | The student knows the machine park care systems - classic, TPM (Comprehensive maintenance, RCM - Reliability Centered Maintenance | | [SW1] Assessment of factual knowledge | | |
| | [K6_K02] is able to interact and work in a group, assuming different roles, can inspire and organize the learning process of others, properly identifies priorities for realization of a task specified by themselves or others | | Mastering the ability to organize the material management system in operation logistics. The ability to plan maintenance and repair works and their material protection | | [SK5] Assessment of ability to solve problems that arise in practice | | |
| Subject contents | 1. Basic concepts, introduction to the area of operation logistics. 2. Factors for the selection of machines and devices. Movement documentation of machines. 3. Types and characteristics of maintenance and repair works. 4. Machine park care systems - classic, TPM Total ProductiveMaintenance (Comprehensive Productivity-oriented Maintenance). RCM -Reliability Centered Maintenance. 5. Division of work in operational logistics. Material management of operation logistics | | | | | | |
| Prerequisites and co-requisites | knowledge of production management methods | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | test | | 60.0% | | 100.0% | | |

| | | |
|--|---|--|
| Recommended reading | Basic literature | <p>1. Legutko S. Eksploatacja maszyn Wydawnictwo Politechniki Poznańskiej Poznań 2007.</p> <p>2. Lis. S. Organizacja i ekonomika procesów produkcyjnych w przemyśle maszynowym PWN Warszawa 1984</p> |
| | Supplementary literature | 1. J. Wrotkowski Gospodarka remontowa pojęcia i zasady ogólne, PWN Warszawa 1991 |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | <p>1. Present methods of assessing the condition of machines and production devices</p> <p>2. Schedule of repairs on production lines operating in a continuous system</p> <p>3. Present how to manage materials management in the logistics of machine operation</p> | |
| Work placement | Not applicable | |