GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Engineering Graphics, PG_00060629 | | |
| Field of study | Transport and Logistics | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2023/2024 |
| Education level | first-cycle studies | Subject group | Obligatory subject group in the field of study |
| Mode of study | Full-time studies | Mode of delivery | at the university |
| Year of study | 1 | Language of instruction | Polish |
| Semester of study | 1 | ECTS credits | 4.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Wojciech Leśniewski | |
| | Teachers | mgr inż. Ewa Wojtowicz<br>dr inż. Daniel Piątek<br>dr inż. Wojciech Leśniewski | |

Lesson types and methods of instruction

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 15.0 | 0.0 | 0.0 | 30.0 | 0.0 | 45 |

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 | 45 | 4.0 | 51.0 | 100 |

Subject objectives

- Development of spatial imagination,
- Understanding the rules for the implementation of technical documentation,
- Ability to perform drawing sketches of machine components,
- Ability to perform technical drawings;

Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_W04] has well established knowledge in the field of computer science, electronics, automation and control, information technology and computer graphics, useful for understanding the possibilities of applying them in transport | The Student proficiently uses design-aided software (AutoCAD) and uses it to prepare 2D drawing documentation | [SW1] Assessment of factual knowledge |
| [K6_U01] can obtain information from literature, databases and other sources; verify and systematize the information obtained, interpret it and draw conclusions, formulate and justify opinions | he Student is able to prepare 2D drawing documentation (projections, dimensions) of spatial solids and machine parts in accordance with the applicable TD rules | [SU1] Assessment of task fulfilment<br>[SU3] Assessment of ability to use knowledge gained from the subject |

<table>
<tr><td>Subject contents</td><td>LECTURE and TURTORIALS<br>- The role of engineering graphics, basics of normalization,<br>- Projections of parallel, rectangular and axonometric,<br>- Point, line, plane, determination, common points, specyfic locations,<br>- Solids of revolution and polyhedrons, puncture, cut, penetration,<br>- Views, examples, cross-sections,<br>- Dimensioning of components, dimensional tolerance, determination of the surface condition,<br>- Types of drawings, graphic form sheet, rules for the design documentation;</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>- Knowledge of geometry,<br>- Knowledge of basic machines and their construction;</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>project drawings</td><td>60.0%</td><td>50.0%</td></tr><tr><td>turtorials colloquiums</td><td>60.0%</td><td>50.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004<br><br>MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006</td></tr><tr><td>Supplementary literature</td><td>-</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:<br>Grafika inżynierska (P), TiL (PG_00060629), sem. 1, zimowy 23/24 - Moodle ID: 31966<br>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31966<br>Grafika inżynierska (P), TiL (PG_00060629), sem. 1, zimowy 23/24 - Moodle ID: 31966<br>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31966<br>Grafika inżynierska (P), TiL (PG_00060629), sem. 1, zimowy 23/24 - Moodle ID: 31966<br>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31966</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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