

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

| Subject name and code | Engineering Graphics 1, PG_00044633 | | | | | | | | |
|--|--|---|--|-------------------------------------|------------------------|--|---------|-----|--|
| Field of study | Ocean Engineering, Ocean Engineering | | | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | | 2020/2021 | | | |
| 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 | | | 3.0 | 3.0 | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Marine Mechatronics -> Faculty of Ocean Engineering and Ship Technology | | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Agnieszka Maczyszyn | | | | | | | |
| | Teachers | | dr inż. Magdalena Kunicka | | | | | | |
| | | dr inż. Agnieszka Maczyszyn | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| of instruction | Number of study hours | 15.0 | 30.0 | 0.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| | Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263 Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263 | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation i classes includ plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 45 | | 5.0 | | 25.0 | | 75 | |
| 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_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions | | The student acquires the ability to create drawings of machine elements in accordance with the standards of technical drawing. | | | [SU1] Assessment of task fulfilment | | | |
| | [K6_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in ocean technology | | The student acquires the ability to present rectangular machine elements in plans | | | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge | | | |

| Subject contents | LECTURE and TURTORIALS | | | | | | |
|--|--|---|-------------------------------|--|--|--|--|
| | - The role of engineering graphics, basics of normalization, | | | | | | |
| | | | | | | | |
| | - Projections of parallel, rectangular | rojections of parallel, rectangular and axonometric, | | | | | |
| | - Point, line, plane, determination, common points, specyfic locations, | | | | | | |
| | - Solids of revolution and polyhedrons, puncture, cut, penetration, | | | | | | |
| | - Views, examples, cross-sections, | | | | | | |
| | - Dimensioning of components, dimensional tolerance, determination of the surface condition, | | | | | | |
| | - Types of drawings, graphic form sheet, rules for the design documentation; | | | | | | |
| Prerequisites | - Knowledge of geometry, | | | | | | |
| and co-requisites | - Knowledge of basic machines and their construction; | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| and criteria | turtorials tech. drawings | 60.0% | 30.0% | | | | |
| | lecture colloquium | 55.0% | 40.0% | | | | |
| | turtorials colloquiums | 60.0% | 30.0% | | | | |
| Recommended reading | Basic literature | DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004 MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006 | | | | | |
| | Supplementary literature DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004 Kurmaz L.W.: Projektowanie węzłów i części maszyn. Wydawnictwo Politechniki Świętokrzyskiej, 2007 | | | | | | |
| | eResources addresses Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id= Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id= | | | | | | |
| Example issues/ example questions/ tasks being completed | | | | | | | |
| Work placement | Not applicable | | | | | | |