



Subject card

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| Subject name and code | , PG_00055813 | | | | | | |
| Field of study | Ocean Engineering | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | 2023/2024 | | |
| Education level | first-cycle studies | | Subject group | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 2 | | Language of instruction | | Polish | | |
| Semester of study | 3 | | ECTS credits | | 7.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Daniel Piątek | | | | |
| | Teachers | | mgr inż. Ewa Wojtowicz | | | | |
| | | | dr inż. Daniel Piątek | | | | |
| | | | dr inż. Wojciech Leśniewski | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 30.0 | 0.0 | 30.0 | 0.0 | 90 |
| | 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 | 90 | | 16.0 | | 69.0 | 175 |
| Subject objectives | <div>- Development of spatial imagination,</div> <div>- Understanding the rules for the implementation of technical documentation,</div> <div>- Ability to perform drawing sketches of machine components,</div> <div>- Ability to perform technical drawings;</div> | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [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 is able to use computer-aided design tools to prepare drawing documentation in electronic 2D version | | [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation | | |
| | [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 is able to use and applies standards related to engineering graphics in order to prepare drawing documentation of machine parts | | [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information | | |
| Subject contents | <div>LECTURE and TURTORIALS</div> <div>- The role of engineering graphics, basics of normalization,</div> <div>- Projections of parallel, rectangular and axonometric,</div> <div>- Point, line, plane, determination, common points, specyfic locations,</div> <div>- Solids of revolution and polyhedrons, puncture, cut, penetration,</div> <div>- Views, examples, cross-sections,</div> <div>- Dimensioning of components, dimensional tolerance, determination of the surface condition,</div> <div>- Types of drawings, graphic form sheet, rules for the design documentation;</div> | | | | | | |

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| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | lecture - colloquium | 60.0% | 50.0% |
| | project - tech. drawings | 60.0% | 50.0% |
| 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 | ROMANOWICZ, P.: RYSUNEK TECHNICZNY W MECHANICE I BUDOWIE MASZYN. Wydawnictwo Techniczne PWN, W-Wa 1918; LEWANDOWSKI T. - Rysunek techniczny dla mechaników. WSiP Wydawnictwa Szkolne i Pedagogiczne, W-wa 2008; KURMAZ, L.: Podstawy Konstrukcji Maszyn. Projektowanie węzłów i części maszyn. Wyd. Politechniki Świętokrzyskiej, Kielce 2011; | |
| | eResources addresses | Adresy na platformie eNauczanie: Grafika inżynierska (W), OiKM (PG_00060525), sem. 1, zimowy 23/24 - Moodle ID: 32800 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32800 Grafika inżynierska (P), OiKM (PG_00060525), sem. 1, zimowy 23/24 - Moodle ID: 31430 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31430 | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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