



Subject card

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|---|---|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Engineering Graphics II, PG_00040167 | | | | | | |
| Field of study | Mechanical Engineering | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | 2025/2026 | | |
| Education level | first-cycle studies | | Subject group | | Obligatory subject group in the field of study 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 | 1 | | Language of instruction | | English | | |
| Semester of study | 2 | | ECTS credits | | 2.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Institute Of Mechanics And Machine Design -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Jacek Łubiński | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 15.0 | 0.0 | 30 |
| | 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 | 30 | | 5.0 | | 15.0 | 50 |
| Subject objectives | The aim of the classes is to learn the principles of technical drawing of machine parts and connections used in machine building. Preparation of working and assembly drawings. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | K6_W07 | | The student is capable of - drawing machine parts with current technical drawing norms, - creating working and assembly drawings, - reading information of machine elements on assembly drawings, - understands spatial construction of mechanical assemblies, - reads diagrams of the technical systems. | | [SW1] Assessment of factual knowledge | | |
| | [K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools | | The student is capable of - drawing machine parts with current technical drawing norms, - creating working and assembly drawings, - reading information of machine elements on assembly drawings, - understands spatial construction of mechanical assemblies, - reads diagrams of the technical systems. | | [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment | | |

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| Subject contents | Rules of assembly draing. | | |
| | Permanent joints (wealding, soldering) | | |
| | Non permanent joints (threads) | | |
| | Normalized parts on drawing (bearings, gears, clutch, axes) | | |
| | Sealing and flexible parts. | | |
| | Electircal diagrams | | |
| | Pneumatic and hydraulic diagram. | | |
| Prerequisites and co-requisites | Engineering Graphics II | | |
| | Basics of machine building and metrology | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Design classes | 60.0% | 40.0% |
| | Final colloquium | 60.0% | 60.0% |
| Recommended reading | Basic literature | Zapis Konstrukcji Geometria Wykreślna, A. Rigall, J. Sadaj Rysunek Techniczny T. Dobrzański | |
| | Supplementary literature | Schaum's outline of theory and problems of Descriptive geometry - Minor Clyde Hawk | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | Assembly drawing of welding part | | |
| | Assembly drawing of threaded connection | | |
| | Drawing of drive system | | |
| Work placement | Not applicable | | |

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