

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| Subject name and code | Group project II, PG_00063392 | | | | | | | | |
|--|---|--|--|-------------------------------------|--------|--|-----------------------|-----|--|
| Field of study | Technologies for Industry 5.0 | | | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | | 2027/2028 | | | |
| 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 | | | English | | | |
| Semester of study | 6 | | ECTS credits | | | 8.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Division Of Electrochemistry And Surface Physical Chemistry -> Institute Of Nanotechnology And Ma Engineering -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej | | | | | | And Materials kiej | | |
| Name and surname | Subject supervisor | | dr hab. inż. Jacek Ryl | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| of instruction | Number of study hours | 0.0 | 0.0 | 0.0 | 100.0 | | 0.0 | 100 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes includ plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 100 | | 10.0 | | 90.0 | | 200 | |
| Subject objectives | After this course Student has a broad knowledge of the issues, which concerns about the project. Student has the ability of organization and planning group tasks. The student gains the ability to cooperate with others and acquire interpersonal communication skills. The student acquires the skills associated with the preparation of the technical documentation of the project. Student is able to define the purpose and objectives of the planned activities and can arrange a schedule sentences. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U03] has the ability to plan, prepare and carry out engineering activities using practical knowledge and understanding of the specificity of materials, devices and tools, processes and technologies, and prepare a substantive report | | her work and solve given problems using acquired tools and methods characteristic for | | | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| | [K6_K03] effectively, clearly and unambiguously conveys information, describes activities and communicates their results and opinions of a specialist engineer using appropriate communication methods and tools | | within a group, communicate the | | | [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work | | | |
| | [K6_K02] makes decisions independently, carries out a critical assessment of own actions and actions of managed teams, is ready to make decisions and accept responsibility for the consequences of these actions | | solve a practical problem. | | | [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice | | | |
| | [K6_U06] performs analysis, exploration and cleaning of data sets, can use statistical models and machine learning models, integrate various analytical, management and data storage tools | | Is able to analyze the correct functioning and make corrections to the tool proposed as part of the project implementation. | | | [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task | | | |

| Subject contents | Introduction to problem solving in groups. Clear definition of the problem to be solved, its location in the surrounding technical environment and expected results. Discussion of the principles of working in a group, e.g. assigning roles and responsibilities and establishing the principles of communication and cooperation and ways of obtaining missing information. Discussion of the role of non-technical aspects and constraints, e.g. legal or economic. Preparation of a project schedule. Identification, implementation and implementation of the solution for the posed problem. Conducting tests and correcting any errors. Preparation of a final report / user manual / project description. Demonstration. | | | | | | |
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| Prerequisites and co-requisites | Knowledge of data engineering, programming basics, and basic physics, chemistry, and electronics | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| | Project submission | 60.0% | 100.0% | | | | |
| Recommended reading | Basic literature | Depending on the given research problem | | | | | |
| | Supplementary literature | - | | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | | |
| Example issues/ example questions/ tasks being completed | | | | | | | |
| Work placement | Not applicable | | | | | | |

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