

Subject card

| Subject name and code | LABARATORY PRACTICE, PG_00064369 | | | | | | | | |
|---|---|---|---|-------------------------------------|-----|--|----------|-----|--|
| Field of study | Chemistry | | | | | | | | |
| 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 | | | |
| 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 | | | 2.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department Of Inorga | anic Chemistry | -> Faculty Of Chemistry -> Wydziały Politechniki Gdańskiej | | | | | | |
| Name and surname | Subject supervisor | ct supervisor dr inż. Andrzej Okuniewski | | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | · | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | ' ' ' ' | | t | Seminar | SUM | |
| of instruction | Number of study hours | 0.0 | 0.0 | 30.0 | 0.0 | | 0.0 | 30 | |
| | E-learning hours inclu | | - did4i- | Dawtiainatian i | _ | 0 - 15 - 4 | | SUM | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study | | SOM | |
| | Number of study hours | 30 | | 2.0 | | | | 60 | |
| Subject objectives | Mastering the basic to | echniques used | l in chemical la | boratories. | | | | | |
| Learning outcomes | Course outcome Subject outcome Method of verification | | | | | | fication | | |
| | [K6_U09] is able to recognise hazards, counteract them and work with chemical reagents and basic technical apparatus in accordance with health and safety principles and the concept of sustainability | | The student can safely perform basic laboratory tasks, efficiently using reagents, media, and equipment in the chemical laboratory. Knows how to act in hazardous situations. | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | | | |
| | [K6_U03] operates typical laboratory apparatus and carries out analyses to identify chemical compounds and materials, integrating computational methods and application software | | The student is able to use basic laboratory equipment, among others, to prepare solutions, perform distillation and crystallization, as well as perform qualitative and quantitative analysis. Is able to measure the pH and temperature of a solution, perform basic calculations, balance chemical reactions and collect the results in the form of a report. | | | [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| | [K6_K03] is aware of the importance of caring for the quality and diligence of the tasks performed, being responsible for their consequences | | The student reviews the prepared course materials and acquires the necessary knowledge to responsibly and safely perform laboratory tasks in a group. | | | [SK3] Assessment of ability to organize work [SK2] Assessment of progress of work [SK1] Assessment of group work skills | | | |
| Subject contents | Department of Inorganic Chemistry: Basic laboratory tasks. Solution pH. Redox reactions. Qualitative analysis of selected metal cations. Department of Physical Chemistry: Solution preparation. Volumetry, titration. Temperature measurement, | | | | | | | | |
| | Department of Analytical Chemistry: Volumetric glassware, pipetting, compatibility of flasks with pipettes. Principles of correct weighing, weight determination, unit conversion. Preparation of calibration solutions, concentration calculations. Operation and calibration of a pH meter, preparation of solutions with a specified pH. Familiarization with basic laboratory equipment (sample preparation). | | | | | | | | |

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| Prerequisites and co-requisites | | | | | |
|--|--|--|-------------------------------|--|--|
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | |
| | DACh laboratory | 60.0% | 33.0% | | |
| | DPCh laboratory | 60.0% | 33.0% | | |
| | DICh laboratory | 60.0% | 34.0% | | |
| Recommended reading | Basic literature | Materials available on the eNauczanie platform. A. Okuniewski, A. Mietlarek-Kropidłowska: Techniki laboratoryjne. Materiał obowiązujący na zajęciach realizowanych w Katedrze Chemii Nieorganicznej, Gdańsk 2024. | | | |
| | Supplementary literature | N. Bellen, A. Gutorska: Poradnik laboranta chemika. WNT, Warszawa 1985. | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | |
| Example issues/ example questions/ tasks being completed | Sample questions can be found in the materials available on the eNauczanie platform. | | | | |
| Work placement | Not applicable | | | | |

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