



Subject card

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| Subject name and code | , PG_00055422 | | | | | | |
| Field of study | Nanotechnology | | | | | | |
| Date of commencement of studies | February 2024 | | | Academic year of realisation of subject | | 2024/2025 | |
| Education level | second-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 | 1 | | | Language of instruction | | Polish | |
| Semester of study | 2 | | | ECTS credits | | 1.0 | |
| Learning profile | general academic profile | | | Assessment form | | assessment | |
| Conducting unit | Division of Electrochemistry and Surface Physical Chemistry -> Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | | dr hab. inż. Jacek Ryl | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 15 |
| | 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 | 15 | | 2.0 | | 8.0 | 25 |
| Subject objectives | Preparation for the performance and defense of the thesis. Acquainting with elements of scientific methodology. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | K7_U01 | Ability to use data bases, scientific literature and self-extraction requests | | | [SU1] Assessment of task fulfilment | | |
| | [K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment | The ability to communicate the progress of the completion of the diploma thesis, the need to undertake research issues and the selection of hypotheses. | | | [SK2] Assessment of progress of work | | |
| | [K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications | General knowledge of related scientific disciplines (chemistry, physics, nanotechnology) and awareness of their directions development | | | [SW1] Assessment of factual knowledge | | |
| Subject contents | <p>Analysis of the faculty diploma regulations. Elements of the methodology of preparing the thesis: selection of the subject and topic of the thesis, work schedule thesis, analysis of the state of knowledge in the subject of the diploma, literature review, work layout, main chapters, purpose of the work, conclusions, references, cost estimate of experimental research, editorial elements of the work: text, results calculation, charts, measurement errors. Presentation of the general subject of the work, literature review. Discussion of the results of own research. Presentation of the main results of the thesis. Critical analysis of the thesis text. Elements of the public presentation of work results. Preparation of the presentation for the defense of the thesis. Presentation of typical questions for the defense of a thesis</p> | | | | | | |
| Prerequisites and co-requisites | Passed subjects from semesters 1-2. | | | | | | |

| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| | presentation of own results | 100.0% | 50.0% |
| | presentation of the scope of the work | 100.0% | 20.0% |
| | seminar attendance | 50.0% | 30.0% |
| Recommended reading | Basic literature | Scientific Method in Practice. Hugh G. Gauch Jr. Cambridge University Press (December 23, 2002). ISBN-13: 978-0521017084 | |
| | Supplementary literature | Scientific literature, articles in JCR journals on the subject of thesis | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | What is the purpose of the research being conducted? What are the research hypotheses? | | |
| Work placement | Not applicable | | |

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