

## Subject card

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|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | M.Sc. seminar - Economy, PG_00144203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                         |                                     |                                                                                                                                                         |            |     |
| Field of study                              | Chemical Business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                                         |                                     |                                                                                                                                                         |            |     |
| Date of commencement of studies             | February 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          | Academic year of realisation of subject |                                     | 2026/2027                                                                                                                                               |            |     |
| Education level                             | Master's studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Humanistic-social subject group<br>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                            |                                     | 2.0                                                                                                                                                     |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | Assessment form                         |                                     | credit                                                                                                                                                  |            |     |
| Conducting unit                             | Faculty of Economics -> Rector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |                                         |                                     |                                                                                                                                                         |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          | dr hab. Przemysław Kulawczuk            |                                     |                                                                                                                                                         |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                         |                                     |                                                                                                                                                         |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                                                                                                                                 | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0                                                      | 0.0                                     | 0.0                                 | 0.0                                                                                                                                                     | 30.0       | 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                          | <p>Students prepare an independent master's thesis and pass the master's exam through</p> <p>Developing in-depth skills in preparing and presenting oral speeches in Polish,</p> <p>Preparation to independently collect and process scientific information based on literature searches</p> <p>Learning the principles of preparing and writing substantively and formally correct scientific texts, with particular emphasis on master's thesis.</p> <p>Monitoring the progress of each student's thesis</p> <p>Preparation for the master's exam</p> |                                                          |                                         |                                     |                                                                                                                                                         |            |     |

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| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Subject outcome                                                                                                                                                                                                                  | Method of verification                                  |
|                                 | [BCHMU2_W06] Knows and understands tasks in the field of chemistry, environmental protection and economics that are the subject of human activity to the extent that allows independent work on a research, scientific and measuring position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Knows and understands tasks in the field of chemistry, environmental protection and economics that are the subject of human activity and knows how to include them in a master's thesis.                                         | [SW3] text preparation/written work                     |
|                                 | [BCHMU2_U02] Is able to define her/his interests, develop them within the chosen direction and in connection with the subject of her/his master's thesis by implementing the process of self-education and planning her/his professional career.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Is able to define his interests, develop them within the chosen field and in connection with the subject of his master's thesis, implementing the process of self-education and planning his professional career.                | [SU3] text preparation/written work                     |
|                                 | [BCHMU2_K08] Is willing to develop appropriate best practices and take up challenges in the professional and public sphere, taking into account the principles of professional ethics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Is ready to shape appropriate patterns of conduct and take up scientific challenges in a master's thesis, taking into account the principles of professional ethics.                                                             | [SK8] observation of student's independent or team work |
|                                 | [BCHMU2_U05] Is able to choose and apply, based on the literature of chemical sciences in Polish and English, appropriate methods and tools for solving problems in chemistry and related sciences.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Is able to select and apply, based on the literature on chemical and economic sciences in Polish and English, appropriate methods and tools to solve problems in a master's thesis.                                              | [SU5] implementation of a problem task                  |
|                                 | [BCHMU2_U04] Is able to independently plan and perform specific research tasks in the field or in the laboratory, interpret their results working individually or in a team, assuming various roles and functions including managerial.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Is able to independently plan and perform specific research tasks as part of a master's thesis and is able to interpret their results working individually or in a team of authors.                                              | [SU5] implementation of a problem task                  |
|                                 | [BCHMU2_U03] Is able to present, based on the current state of knowledge, scientific discoveries and the results of own research in the field of chemical and economic sciences, by skilfully conducting debates and public speaking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Is able to present, based on the current state of knowledge, scientific discoveries and results of own research in the field of chemical and economic sciences useful for writing a master's thesis.                             | [SU2] presentation/project/paper/report                 |
|                                 | [BCHMU2_W07] Knows and understands legal and economic systems of organization and management of human resources, patent information and intellectual property resources related to the chemical industry and other sectors of the economy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Knows and understands legal and economic systems of organization and management of human resources, patent information and intellectual property resources for use in the master's thesis.                                       | [SW1] oral statement/conversation/discussion            |
|                                 | [BCHMU2_W05] Knows and understands the main trends in the development of chemistry combined with economics as two interpenetrating scientific disciplines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Knows and understands the main directions of development of chemistry in combination with economics as two interpenetrating scientific disciplines and also understands how this knowledge can be included in a master's thesis. | [SW3] text preparation/written work                     |
| Subject contents                | <p>Research problems in a master's thesis in the field of economic sciences Purpose of the work, hypotheses and research theses: formulation Sources of knowledge necessary to explain the research problem: selection, selection, analysis Verification of hypotheses and research theses based on the description of the research subject and through diagnosis of the problem Determination of important aspects of the researched problem Creating development scenarios, forecasts or draft strategies in relation to the examined issues Editing the text of the master's thesis (communication, scientific language of the study, bibliographic description, error control) Methods of graphic presentation of research results Preparing paper and electronic bibliography of the work and monitoring compliance with the principles of intellectual property protection Developing a summary of the master's thesis in English</p> |                                                                                                                                                                                                                                  |                                                         |
| Prerequisites and co-requisites | <p>A. Formal requirements registering for a selected seminar, in accordance with the chosen specialty, in the manner specified by the dean and the specialty supervisor B. Entry requirements none</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                  |                                                         |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Passing threshold                                                                                                                                                                                                                | Percentage of the final grade                           |
|                                 | Assessment criteria, selection of a topic, development of a work plan, writing an important part of the economic part of the work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100.0%                                                                                                                                                                                                                           | 100.0%                                                  |

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|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                      | <p>A.1. used during classesBooks and scientific articles related to the subject of the master's thesis.Instructions for preparing diploma theses at the Faculty of Economics</p> <p>UG,<a href="http://ekonom.univ.gda.pl/student/doc/Instrukcja_przygotowania_prac_dyplomowych_WEUG.pdf">http://ekonom.univ.gda.pl/student/doc/Instrukcja_przygotowania_prac_dyplomowych_WEUG.pdf</a> Instrukcja pisanie prac magisterskich na specjalności FwP:</p> <p>"Instrukcje - plik dowypelnienia", <a href="http://ekonom.ug.edu.pl/web/wydzial/?lang=pl&amp;ao=pracownicy_a-">http://ekonom.ug.edu.pl/web/wydzial/?lang=pl&amp;ao=pracownicy_a-</a></p>                                                                                                                                                                                                                                                                                   |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                              | <p>A.2. studied independently by the student.</p> <p>Books and scientific articles related to the subject of the master's thesis</p> <p>T. Kaczmarek, Poradnik dla studentów piszących prace licencjacka lub magisterska, Warszawa, 2005 [dostęp online],<a href="http://bg.univ.szczecin.pl/pliki/poradnik_dla_studentow.pdf">http://bg.univ.szczecin.pl/pliki/poradnik_dla_studentow.pdf</a>.</p> <p>R. Zenderowski, Praca magisterska - Licencjat. Krótki przewodnik po metodologii pisanie i obrony pracy dyplomowej, CeDeWu, Warszawa 2011.</p> <p>Z.Szkutnik, Metodyka pisanie pracy dyplomowej licencjackiej i magisterskiej. Zasady opisu bibliograficznego i redagowania przypisów [dostęp online] <a href="http://moodle.wsus.pl/file.php/1/1/metody.pdf">http://moodle.wsus.pl/file.php/1/1/metody.pdf</a>.</p> <p>B. Additional literatureBooks and scientific articles related to the topic of the master's thesis</p> |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Example issues/<br>example questions/<br>tasks being completed | <p>Assessment of market prospects for a new product<br/>Description of the product or technology development procedure<br/>Assessment of the revenue potential of new technology<br/>Preparation of a cost estimate for a research project<br/>Description of the strategy for protecting intellectual property created in the scientific project</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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