

## Subject card

|                                             |                                                                                                                                                         |                                                          |                                         |                                     |                        |            |     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------|------------|-----|
| Subject name and code                       | European project of SME - innovations, PG_00080795                                                                                                      |                                                          |                                         |                                     |                        |            |     |
| Field of study                              | Chemical Business                                                                                                                                       |                                                          |                                         |                                     |                        |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                            |                                                          | Academic year of realisation of subject |                                     | 2027/2028              |            |     |
| Education level                             | Bachelor's studies                                                                                                                                      |                                                          | Subject group                           |                                     | Optional subject group |            |     |
| Mode of study                               | full-time studies                                                                                                                                       |                                                          | Mode of delivery                        |                                     | at the university      |            |     |
| Year of study                               | 3                                                                                                                                                       |                                                          | Language of instruction                 |                                     | Polish                 |            |     |
| Semester of study                           | 5                                                                                                                                                       |                                                          | ECTS credits                            |                                     | 2.0                    |            |     |
| Learning profile                            | academic                                                                                                                                                |                                                          | Assessment form                         |                                     | credit                 |            |     |
| Conducting unit                             | Faculty of Economics -> Rector                                                                                                                          |                                                          |                                         |                                     |                        |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                      |                                                          | prof. dr hab. Jacek Zaucha              |                                     |                        |            |     |
|                                             | Teachers                                                                                                                                                |                                                          |                                         |                                     |                        |            |     |
| Lesson types                                | Lesson type                                                                                                                                             | Lecture                                                  | Tutorial                                | Laboratory                          | Project                | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                   | 0.0                                                      | 30.0                                    | 0.0                                 | 0.0                    | 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 course is to provide knowledge on financing innovative projects of companies in the chemical, pharmaceutical or biotechnology industries |                                                          |                                         |                                     |                        |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                                             | Subject outcome                                                                                                                                                                                                                                                                  | Method of verification                                                                             |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                   | [BCHINŻ_U12] Is able to participate in the analyses and evaluation of alternative solutions to economic problems and choose methods and instruments to rationally resolve them.                            | The student is able to participate in analyzes and assessments of alternative solutions for applying for external support to finance innovations and is able to select appropriate methods and instruments in this area.                                                         | [SU2] presentation/project/paper/report<br>[SU8] observation of student's independent or team work |
|                   | [BCHINŻ_U11] Uses the acquired economic knowledge in undertaking independent business activities and resolving dilemmas of professional work.                                                              | The student applies the acquired knowledge in economics to independently apply for external support to finance innovations in the chemical business                                                                                                                              | [SU2] presentation/project/paper/report<br>[SU8] observation of student's independent or team work |
|                   | [BCHINŻ_K03] Independently sets or implements a set action plan specifying priorities for its implementation; critically assesses its progress.                                                            | The student independently establishes or implements an established action plan for raising funds for innovation, specifying the priorities for its implementation                                                                                                                | [SK2] presentation/project/paper/report<br>[SK8] observation of student's independent or team work |
|                   | [BCHINŻ_U09] Using the acquired knowledge, skills and various sources of scientific information independently prepares written papers and oral presentations.                                              | The student applies the acquired knowledge, skills and various sources of scientific information to obtain external funds for innovations, independently prepares applications for this purpose and oral presentations on this issue in relation to running a chemical business. | [SU2] presentation/project/paper/report<br>[SU8] observation of student's independent or team work |
|                   | [BCHINŻ_W12] Has basic knowledge of man as an entity creating economic structures in the chemical business and has elementary knowledge of the principles and motives of human action in these structures. | The student has knowledge of economics about man as an entity that creates economic structures in the chemical business and obtains funds for investment activities from public sources, has knowledge of the principles and motives of human activity in these structures.      | [SW2] presentation/project/paper/report                                                            |
|                   | [BCHINŻ_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.                                                | The student works individually, showing initiative and independence in applying for external funds for innovations, and cooperates effectively in a team, playing various roles in it.                                                                                           | [SK2] presentation/project/paper/report<br>[SK8] observation of student's independent or team work |
|                   | [BCHINŻ_W01] Describes the relationship between the economy and the functioning of the chemical industry.                                                                                                  | The student describes at an advanced level the relations between economics and the functioning of a chemical enterprise in the field of raising funds for innovation.                                                                                                            | [SW2] presentation/project/paper/report                                                            |

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| Subject contents                | <p>T1. The concept and essence of innovation in relation to a chemical industry enterprise. Features of innovation. The effects of innovative market ventures on enterprises and buyers. Classification and characteristics of innovations.</p> <p>T2. Innovation support policy at EU and national level. Review of the most important strategic documents in Poland and the EU. The most important directions of supporting innovation.</p> <p>T.3 Innovation in the province Pomeranian. The most important strategic documents. Overview of support instruments.</p> <p>T.4 Commercial sources of financing for innovative projects. Debt financing (loans, loan and guarantee funds). Capital investments (venture capital market).</p> <p>T.5. Co-financing of innovative projects from EU funds. Operational Programme. European Funds for a Modern Economy 2021-2027 (FENG), successor of POIR. Operational Program European Funds for Digital Development 2021-2027 (FERC). Operational Program European Funds for Social Development 2021-2027 (FERS), successor to POWER, Operational Program European Funds for Eastern Poland. Operational Program European Funds for Infrastructure, Climate, Environment for 2021-2027 (FENIKS). Regional Operational Programs. Cross-border and cross-border cooperation programs. The European Union Framework Program Horizon Europe.</p> <p>T6. Own instruments of the Marshal of the Pomeranian Voivodeship supporting innovation in the region (emphasis on repayable instruments).</p> <p>T 7 Preparation of an innovative project under FENG. Main requirements of the program. Priorities and expected products. Program manual (manual).</p> <p>T8. Preparation of an innovative project under the South Baltic Program. Main requirements of the program. Priorities and expected products. Program manual (manual).</p> <p>T9 Study visit to regional agencies supporting innovation in Pomerania.</p> |                                                                                                                                                                                                                                                                                                                                                                      |                               |
| Prerequisites and co-requisites | Completed economics and entrepreneurship course                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                               |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Passing threshold                                                                                                                                                                                                                                                                                                                                                    | Percentage of the final grade |
|                                 | group project and students' engagement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51.0%                                                                                                                                                                                                                                                                                                                                                                | 100.0%                        |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>1. Baruk J., <i>Zarządzanie wiedza i innowacjami</i>, Wydawnictwo Adam Marszałek, Toruń 2006</p> <p>2. Drucker P. F., <i>Innowacje i przedsiębiorczość. Praktyka i zasady</i>, PWE, Warszawa 1992</p> <p>3. Pietras P., Głodek P., <i>Finansowanie przedsięwzięć innowacyjnych w MSP</i>, Polska Agencja Rozwoju Przedsiębiorczości, Warszawa 2011.</p>           |                               |
|                                 | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>1. Oniszczyk-Jastrząbek A., <i>Innowacje jako element działalności przedsiębiorstwa</i> [w:] <i>Gospodarka Elektroniczna -</i></p> <p><i>Współczesne Przedsiębiorstwo na Rynku Globalnym</i>. Red. J. Winiarski, UG, Gdańsk 2010</p> <p>2. Pangsy-Kania S., <i>Polityka innowacyjna państwa a narodowa strategia konkurencyjnego rozwoju</i>, UG, Gdańsk 2007</p> |                               |

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|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Supplementary<br><a href="https://www.parp.gov.pl/">https://www.parp.gov.pl/</a> - Polish Agency for Enterprise Development (PARP). The aim of the Agency is to implement economic development programs supporting innovative and research activities of small and medium-sized enterprises (SMEs), regional development, export growth, human resources development and the use of new technologies in business activities. |
| Example issues/<br>example questions/<br>tasks being completed | The tutorials will take a form of workshops and will deepen the topics of the lectures. During each workshop, the lecturer and students will construct decision-making situations, test solutions, analyze results and build generalizations. The workshops include practical preparation of some elements of application for a selected EU program regarding an innovative project and then their joint evaluation. Group work a(5-6 people) consisting in applying knowledge and skills acquired during the lecture for obtaining external funds for innovations in a selected company from the chemical, pharmaceutical or biotechnology industries. |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                              |

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