

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                               |                                                          |                                         |                                     |                                                                                   |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Project management, PG_00153640                                                                                                                                                                                                                                                                                               |                                                          |                                         |                                     |                                                                                   |            |     |
| Field of study                              | Biotechnology                                                                                                                                                                                                                                                                                                                 |                                                          |                                         |                                     |                                                                                   |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                                                                                                  |                                                          | 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 |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                                                             |                                                          | Mode of delivery                        |                                     | at the university                                                                 |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                                                                                                             |                                                          | Language of instruction                 |                                     | English                                                                           |            |     |
| Semester of study                           | 3                                                                                                                                                                                                                                                                                                                             |                                                          | ECTS credits                            |                                     | 1.0                                                                               |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                      |                                                          | Assessment form                         |                                     | credit                                                                            |            |     |
| Conducting unit                             |                                                                                                                                                                                                                                                                                                                               |                                                          |                                         |                                     |                                                                                   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                            |                                                          | dr hab. Joanna Sadkowska                |                                     |                                                                                   |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                      |                                                          |                                         |                                     |                                                                                   |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                   | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                                                           | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                         | 15.0                                                     | 0.0                                     | 0.0                                 | 0.0                                                                               | 0.0        | 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                                                       |                                         | 0.0                                 |                                                                                   | 15.0       | 30  |
| Subject objectives                          | The aim of the course is: a. to impart knowledge in the area of project management b. for Students to acquire project management techniques and tools in the project initiation, planning, execution and closure phases. Particular emphasis will be placed on building the Student's skills in the area of project planning. |                                                          |                                         |                                     |                                                                                   |            |     |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Subject outcome                                                                                                                                                 | Method of verification                                                                                  |
|                                 | [BIOTECHMU2_W07] The graduate possesses knowledge in the social sciences and humanities that is helpful in entrepreneurship and effective functioning in society, and understands the principles of responsibility in conducting scientific research.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Knows and understands selected project management issues in depth                                                                                               | [SW4] test/exam - oral or written                                                                       |
|                                 | [BIOTECHMU2_U06] The graduate is able to prepare, in a targeted manner in Polish and / or English, a written study, a scientific publication in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Knows selected project management issues in depth and knows how to present them                                                                                 | [SU2] presentation/project/paper/report                                                                 |
|                                 | [BIOTECHMU2_U03] The graduate is able to work independently and in a team; be flexible when working in a team and accept various roles and tasks, including the role of a group leader.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Able to work as part of a project team and perform the assigned role in a responsible manner                                                                    | [SU8] observation of student's independent or team work                                                 |
|                                 | [BIOTECHMU2_K07] The graduate is aware of the importance of economic factors in the commercialization of research results. He thinks and acts in an entrepreneurial manner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Is aware of the importance of design in the commercialisation of research results. When working in a project team, thinks and acts in an entrepreneurial manner | [SK1] oral statement/conversation/discussion<br>[SK8] observation of student's independent or team work |
| Subject contents                | <p>Topic 1: Introduction to project management The essence and characteristics of projects The place and role of projects in the activity of a small enterprise The specific activity of a small tourism enterprise Projects in the history of project management Basic parameters of projects Project classification Project management in the activity of a small tourism enterprise</p> <p>Topic 2: The life cycle of projects 1. The essence of the life cycle 2. The life cycle of a project versus the life cycle of a product and an organisation 3. The stages of the project life cycle 4. Life cycle analysis on the example of selected projects (case study)</p> <p>Topic 3: Project initiation and planning Defining project goals and scope Project charter Project stakeholder analysis Project responsibility matrix (RAM) 4. Project work breakdown structure (SPP/WBS) The essence and purpose of creating an SPP Types of SPP Building a work breakdown structure</p> <p>Topic 4: Selected techniques in project planning Scheduling Network techniques 2. Project planning using the Critical Path Method (CPM) The essence and main assumptions of the CPM Network diagram in project planning Time reserves in the CPM Method Determination and analysis of the critical path</p> |                                                                                                                                                                 |                                                                                                         |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                 |                                                                                                         |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Passing threshold                                                                                                                                               | Percentage of the final grade                                                                           |
|                                 | written exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51.0%                                                                                                                                                           | 50.0%                                                                                                   |
|                                 | evaluation of the project work on the basis of team activity during the class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51.0%                                                                                                                                                           | 50.0%                                                                                                   |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wysocki R., Efektywne zarządzanie projektami- tradycyjne, zwinne, ekstremalne, OnePress, Gliwice , najnowsze wydanie                                            |                                                                                                         |

|                                                                |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                       | <p>Pietras P., Szmit M., Project management-selected methods and techniques, Horyzont, Łódź 2003.</p> <p>Trocki M. (red.), Nowoczesne zarządzanie projektem, PWE, Warszawa 2012.</p> <p>Trocki M. (ed.), Planning the course of projects, SGH Publishing House, Warsaw 2015.</p> <p>Wirkus M. et al, Project management, PWE, Warsaw 2014.</p> <p>Sadkowska J., <i>Zarządzanie projektami - perspektywa sukcesu</i>, w: Antonowicz P., Próchniak J., Sadkowska J. (red.), <i>Zarządzanie rozwojem przedsiębiorstwa - Perspektywa nauki i praktyki gospodarczej</i>, tom 2, Wydawnictwo Uniwersytetu Gdańskiego, Sopot 2020, ss. 173-190.</p> |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Example issues/<br>example questions/<br>tasks being completed | <ol style="list-style-type: none"> <li>1. preparation of a project charter</li> <li>2. preparation of a project stakeholder analysis and a strategy for dealing with the various stakeholders</li> <li>3. preparation of a Gantt chart for the project</li> <li>4. preparation of a network diagram for the project</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Document generated electronically. Does not require a seal or signature.