

**Subject card**

|  |  |  |          |                                     |   |            |     |
|--|--|--|----------|-------------------------------------|---|------------|-----|
| <b>Subject name and code</b>                       | Quality management in biotechnology and related sciences , PG_00153629   |  |          |                                     |   |            |     |
| <b>Field of study</b>                              | Biotechnology  |  |          |                                     |   |            |     |
| <b>Date of commencement of studies</b>             | October 2024   | <b>Academic year of realisation of subject</b>           |          |                                     | 2024/2025   |            |     |
| <b>Education level</b>                             | Master's studies   | <b>Subject group</b>                                     |          |                                     | Obligatory subject group in the field of study<br>Humanistic-social subject group |            |     |
| <b>Mode of study</b>                               | full-time studies  | <b>Mode of delivery</b>                                  |          |                                     | at the university   |            |     |
| <b>Year of study</b>                               | 1  | <b>Language of instruction</b>                           |          |                                     | Polish<br>Polish  |            |     |
| <b>Semester of study</b>                           | 2  | <b>ECTS credits</b>                                      |          |                                     | 1.0   |            |     |
| <b>Learning profile</b>                            | academic   | <b>Assessment form</b>                                   |          |                                     |   |            |     |
| <b>Conducting unit</b>                             | Zakład Zrównoważonego Rozwoju i Nauk o Jakości -> Katedra Strategicznego Rozwoju -> Faculty of Management -> Rector  |  |          |                                     |   |            |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>  | prof. dr hab. Małgorzata Wiśniewska                      |          |                                     |   |            |     |
|  | <b>Teachers</b>  | prof. dr hab. Małgorzata Wiśniewska                      |          |                                     |   |            |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>   | Lecture  | Tutorial | Laboratory                          | Project   | Seminar    | SUM |
|  | <b>Number of study hours</b>   | 15.0   | 0.0      | 0.0                                 | 0.0   | 0.0        | 15  |
|  | E-learning hours included: 0.0   |  |          |                                     |   |            |     |
| <b>Learning activity and number of study hours</b> | <b>Learning activity</b>   | Participation in didactic classes included in study plan |          | Participation in consultation hours |   | Self-study | SUM |
|  | <b>Number of study hours</b>   | 15   |          | 5.0                                 |   | 5.0        | 25  |
| <b>Subject objectives</b>                          | The aim is to present theoretical and practical issues concerning basic concepts, systems, methods and tools of quality management relevant to the work of a specialist in biotechnology and related fields, with particular emphasis on research laboratories, cosmetic, agri-food and pharmaceutical companies |  |          |                                     |   |            |     |

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| Learning outcomes  | Course outcome   | Subject outcome   | Method of verification                                  |
|  | [BIOTECHMU2_W07] The graduate knows and understands social sciences and humanities, helpful in entrepreneurship and effective functioning in society as a human, citizen, employee, employer; the principles of responsibility in conducting scientific research.  | He/She has knowledge of quality management, helpful in leading and managing an organization in his/her field. Understands and applies the principles of responsibility in conducting scientific research, as required by appropriate quality management systems and good practices.   | [SW2] presentation/project/paper/report                 |
|  | [BIOTECHMU2_K07] The graduate is willing to think and act in an entrepreneurial manner.  | He/She is aware of the importance of economic, including managerial, organizational, systemic factors in the process of commercialization of research results and business. He thinks and acts in a managerial way, using the principles, systems and methods of quality management   | [SK3] text preparation/written work                     |
|  | [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  | He/She is able to prepare in a targeted manner in Polish and/or English a written study in the field of quality assurance in a biotechnological institution, using scientific language including specialized terminology and conceptual apparatus   | [SU8] observation of student's independent or team work |
| Subject contents   | <ol style="list-style-type: none"> <li>1. The concept of quality and its components, based on an analysis of the quality of a selected food product</li> <li>2. Quality management systems, including ISO 9001 and other sectoral quality management systems or a good practices (laboratory, pharmaceutical, cosmetic, agricultural)</li> <li>3. Accreditation of testing laboratories; ISO 17025 and ISO 15189 standards</li> <li>4. Quality policy, its role and practical use</li> <li>5. Crimes that threaten quality assurance</li> <li>6. Reliability, risk in process realization, risk analysis method - FMEA (Failure Mode and Effect Analysis)</li> </ol> |   |   |
| Prerequisites and co-requisites                                |  |   |   |
| Assessment methods and criteria                                | Subject passing criteria   | Passing threshold   | Percentage of the final grade                           |
|  | Written works: Chocolate analysis report; Quality policy; FMEA report  | 51.0%   | 100.0%  |
| Recommended reading  | Basic literature   | <ol style="list-style-type: none"> <li>1. M.Z. Wiśniewska, P. Grudowski, Culture of quality, excellence and safety in organizations, CeDeWu, Warsaw 2019.</li> <li>2. M. Z. Wisniewska, Food crime as a pathology in the food market - the essence, types and an attempt at classification Management and Finance. Journal of Management and Finance. - 2017, R. 15, no. 1, pp. 127-141;</li> <li>3. M. Z. Wisniewska, P. Grudowski, Quality management and innovation in light of the experience of Pomeranian organizations, Innobaltica, Gdansk 2014:</li> </ol> |   |
|  | Supplementary literature   | n/a   |   |
|  | eResources addresses   | Podstawowe<br><a href="http://wzr.ug.edu.pl/nauka/index.php?str=510">http://wzr.ug.edu.pl/nauka/index.php?str=510</a> - Position No 3<br><a href="http://www.wzr.ug.edu.pl/.zif/1_9.pdf">http://www.wzr.ug.edu.pl/.zif/1_9.pdf</a> - Position No 2<br>Adresy na platformie eNauczanie:  |   |
| Example issues/<br>example questions/<br>tasks being completed | Works prepared in accordance with the indications and templates contained in the Education Portal  |   |   |
| Work placement   | Not applicable   |   |   |

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