



Subject card

|   |  |  |                      |                                     |   |            |     |
|---|--|--|----------------------|-------------------------------------|---|------------|-----|
| Subject name and code                       | MSc Diploma Thesis I, PG_00064260  |  |                      |                                     |   |            |     |
| Field of study                              | Biomedical Engineering, Biomedical Engineering, Biomedical Engineering   |  |                      |                                     |   |            |     |
| Date of commencement of studies             | February 2025  | Academic year of realisation of subject                  |                      |                                     | 2025/2026   |            |     |
| Education level                             | second-cycle studies   | Subject group  |                      |                                     | Optional subject group<br>Specialty 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   |                      |                                     | 4.0   |            |     |
| Learning profile                            | general academic profile   | Assessment form  |                      |                                     | assessment  |            |     |
| Conducting unit                             | Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics   |  |                      |                                     |   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |  | dr Brygida Mielewska |                                     |   |            |     |
|   | Teachers   |  |                      |                                     |   |            |     |
| Lesson types and methods of instruction     | Lesson type  | Lecture  | Tutorial             | Laboratory                          | Project   | Seminar    | SUM |
|   | Number of study hours  | 0.0  | 0.0                  | 0.0                                 | 0.0   | 0.0        | 0   |
|   | 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  | 0  |                      | 30.0                                |   | 70.0       | 100 |
| Subject objectives                          | To familiarize students with the process of definition of the research problem, methods of its analysis, the method of evaluation of results and techniques for documenting the various stages of research |  |                      |                                     |   |            |     |

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| Learning outcomes  | Course outcome  | Subject outcome   | Method of verification  |
|  | [K7_U10] can individually plan and pursue their own lifelong education and influence others in this aspect, also by means of advanced information and communication technologies (ICT), and communicate on specialist issues with diverse recipients, appropriately justify points of view, hold debates, present, assess and discuss different opinions and points of view, as well as use specialist terminology related to the field of study in communication | The student knows the basic techniques of data modeling, key standards for IT systems and equipment, medical security techniques, computer methods of supporting diagnostics, and TI used in various fields of health care.   | [SU2] Assessment of ability to analyse information  |
|  | [K7_U08] while identifying and formulating engineering tasks specifications and solving these tasks, can: - apply analytical, simulation and experimental methods, - notice their systemic and non-technical aspects, - make a preliminary economic assessment of suggested solutions and engineering work  | The student knows the basic data modeling techniques, key standards for information systems. The student knows the principles of intellectual property protection. Understands the impact of their activities on the economics and environment in which they operate. | [SU1] Assessment of task fulfilment   |
|  | [K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems   | The student knows and understands the principles of conducting scientific work, the research methods used and determining the conditions for their use  | [SK5] Assessment of ability to solve problems that arise in practice  |
|  | [K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way   | Is able to work in a group, identify basic problems in the work environment and propose methods to solve them.  | [SK1] Assessment of group work skills<br>[SK5] Assessment of ability to solve problems that arise in practice |
| Subject contents   | Literature studies the issues under consideration. Choice, justification and development of research methods. Testing, calculations, analysis of the results, the project proposal. The implementation of the project. Comparative analysis, conclusions.   |   |   |
| Prerequisites and co-requisites                                |   |   |   |
| Assessment methods and criteria                                | Subject passing criteria  | Passing threshold   | Percentage of the final grade   |
|  | Master Thesis   | 60.0%   | 100.0%  |
| Recommended reading  | Basic literature  | Depends on studied topics   |   |
|  | Supplementary literature  | Depends on studied topics   |   |
|  | eResources addresses  | Adresy na platformie eNauczanie:  |   |
| Example issues/<br>example questions/<br>tasks being completed |   |   |   |
| Work placement   | Not applicable  |   |   |

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