



## Subject card

|   |  |   |                                     |            |  |         |     |
|---|--|---|-------------------------------------|------------|--|---------|-----|
| Subject name and code                       | Master thesis, PG_00057414   |   |                                     |            |  |         |     |
| Field of study                              | Mechanical Engineering   |   |                                     |            |  |         |     |
| Date of commencement of studies             | February 2024  | Academic year of realisation of subject   |                                     |            | 2024/2025  |         |     |
| Education level                             | second-cycle studies   | Subject group   |                                     |            | Optional subject group   |         |     |
| Mode of study                               | Full-time studies  | Mode of delivery  |                                     |            | at the university  |         |     |
| Year of study                               | 2  | Language of instruction   |                                     |            | Polish   |         |     |
| Semester of study                           | 3  | ECTS credits  |                                     |            | 20.0   |         |     |
| Learning profile                            | general academic profile   | Assessment form   |                                     |            | assessment   |         |     |
| Conducting unit                             | Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology   |   |                                     |            |  |         |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |   | dr hab. inż. Michał Wodtke          |            |  |         |     |
|   | 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   | 40.0                                |            | 460.0  |         | 500 |
| Subject objectives                          | Preparation by the student of a Master's thesis on a topic and scope defined by the Thesis Supervisor.   |   |                                     |            |  |         |     |
| Learning outcomes                           | Course outcome   | Subject outcome   |                                     |            | Method of verification   |         |     |
|   | [K7_K03] understands the importance of the necessity of solving dilemmas connected with practicing a profession and providing safe working conditions in manufacturing processes and in operation of machines and devices  | The student can make an appropriate choice of techniques in carrying out the assigned task, taking into account the various aspects of the engineer's work. |                                     |            | [SK3] Assessment of ability to organize work<br>[SK5] Assessment of ability to solve problems that arise in practice |         |     |
|   | [K7_U06] when solving engineering problems on design, technology and operation of machines is able to assess and classify typical methods and tools, define systemic and ex-technical aspects using modern calculating methods and design tools or modifying the current ones  | The student, when solving the problem posed in the thesis, is able to select appropriate methods and tools typical for mechanical engineering.              |                                     |            | [SU1] Assessment of task fulfilment<br>[SU3] Assessment of ability to use knowledge gained from the subject          |         |     |
|   | [K7_U03] is able to prepare construction, technological and operational documentation in compliance with appropriate standards, including technical drawings in CAD 2D and 3D systems  | The student is able to document the proposed solution of a solved problem in the form of documentation appropriate to the specific branch of activity.      |                                     |            | [SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task   |         |     |
|   | [K7_K02] correctly identifies professional problems and is able to define the priorities and hierarchy using knowledge in solving problems   | Using the acquired knowledge, the student is able to evaluate the expected problems in solving the task and indicate their importance.                      |                                     |            | [SK2] Assessment of progress of work<br>[SK4] Assessment of communication skills, including language correctness     |         |     |
| Subject contents                            | Principles and requirements for the Master's thesis. Implementation of the thesis under the supervision of the supervisor according to the defined scope and topic. Editorial preparation of the thesis content for publication. Consultation of the project with the supervisor and, if necessary, other experts. Preparation of a multimedia presentation. |   |                                     |            |  |         |     |
| Prerequisites and co-requisites             | Registration for the diploma semester.   |   |                                     |            |  |         |     |

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| Assessment methods and criteria                                | Subject passing criteria  | Passing threshold   | Percentage of the final grade |
|  | Evaluation of the thesis  | 56.0%   | 100.0%                        |
| Recommended reading  | Basic literature  | Literature specific to the subject of the work.   |                               |
|  | Supplementary literature  | Literature specific to the subject of the work.   |                               |
|  | eResources addresses  | Podstawowe<br><a href="https://enauczanie.pg.edu.pl/moodle/">https://enauczanie.pg.edu.pl/moodle/</a> - Addresses on the eNauczenie (eLearning) platform:<br>Adresy na platformie eNauczenie: |                               |
| Example issues/<br>example questions/<br>tasks being completed | Current lists of questions for the diploma examination, specific to the specialisation, are available on the Faculty website. |   |                               |
| Work placement   | Not applicable  |   |                               |

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