



Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                                                                                       |                                     |                                                                                                               |            |     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Diploma Seminar, PG_00050058                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                                                                       |                                     |                                                                                                               |            |     |
| Field of study                              | Space and Satellite Technologies, Space and Satellite Technologies                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                                                                                       |                                     |                                                                                                               |            |     |
| Date of commencement of studies             | February 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | Academic year of realisation of subject                                               |                                     | 2023/2024                                                                                                     |            |     |
| Education level                             | second-cycle studies                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                          | Subject group                                                                         |                                     | Optional 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                               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | Language of instruction                                                               |                                     | Polish                                                                                                        |            |     |
| Semester of study                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | ECTS credits                                                                          |                                     | 5.0                                                                                                           |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          | Assessment form                                                                       |                                     | assessment                                                                                                    |            |     |
| Conducting unit                             | Department of Mechanics and Mechatronics -> Faculty of Mechanical Engineering and Ship Technology                                                                                                                                                                                                                                                                                                                                                               |                                                          |                                                                                       |                                     |                                                                                                               |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | prof. dr hab. inż. Edmund Wittbrodt                                                   |                                     |                                                                                                               |            |     |
|                                             | 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                                                                                                           | 15.0       | 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                                                       |                                                                                       | 5.0                                 |                                                                                                               | 105.0      | 125 |
| Subject objectives                          | <ul style="list-style-type: none"> <li>- creating self-discipline and systematic work on the task being the aim of the thesis;</li> <li>- learning to create professional presentations;</li> <li>- the education of the ability to publicly present the progress and results of their work;</li> <li>- active participation in the substantive discussion on the presentation;</li> <li>- mobilization for timely submission of the diploma thesis.</li> </ul> |                                                          |                                                                                       |                                     |                                                                                                               |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                          | Subject outcome                                                                       |                                     | Method of verification                                                                                        |            |     |
|                                             | K7_U01                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | Student is able to obtain information from literature                                 |                                     | [SU4] Assessment of ability to use methods and tools                                                          |            |     |
|                                             | K7_U02                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | Student is able to communicate using modern communication techniques                  |                                     | [SU1] Assessment of task fulfilment                                                                           |            |     |
|                                             | [K7_K01] is aware of the constant necessity of improving and broadening their knowledge; can inspire and organise the teaching and learning process.                                                                                                                                                                                                                                                                                                            |                                                          | The student is able to learn and inspire others to learn                              |                                     | [SK1] Assessment of group work skills<br>[SK3] Assessment of ability to organize work                         |            |     |
|                                             | K7_W06                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | The student has knowledge of the latest solutions in space and satellite technologies |                                     | [SW1] Assessment of factual knowledge                                                                         |            |     |
|                                             | [K7_K03] Can analyse and implement assigned tasks while maintaining high technical standards. Is able to work and interact in a group, taking on different roles. Adheres to the principles of professional ethics and respects the diversity of views and cultures.                                                                                                                                                                                            |                                                          | The student solves the technical tasks assigned to him                                |                                     | [SK1] Assessment of group work skills<br>[SK5] Assessment of ability to solve problems that arise in practice |            |     |
|                                             | [K7_K02] Understands the non-technical aspects of activities in the field of space and satellite technologies, including their social consequences and impact on the state of the environment. Expresses opinions on the development of technology and related risks.                                                                                                                                                                                           |                                                          | The student understands the impact of new technologies on the environment             |                                     | [SK5] Assessment of ability to solve problems that arise in practice                                          |            |     |

| Subject contents                                               | <p>The paper I (the presentation I): plan and methodology of experimental research or plan and methodology of calculations and concepts of solving research, computational or structural problem. Presentation of research, calculation or design progress;<br/> The paper II (the presentation II): presentation of the final results of the diploma dissertation in the form required during the defense of the diploma thesis.</p>                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                               |                   |                               |                                                   |       |        |  |  |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|---------------------------------------------------|-------|--------|--|--|
| Prerequisites and co-requisites                                | <p>1) participation in classes;<br/> 2) reporting the progress of work - each student reports twice each semester;<br/> - the paper I (the presentation I): plan and methodology of experimental research or plan and methodology of calculations and concepts of solving research, computational or structural problem. Presentation of research, calculation or design progress;<br/> - paper II (the presentation II): presentation of the final results of the diploma dissertation in the form required during the defense of the diploma thesis.<br/> 3) positive evaluation of each paper;<br/> 4) evaluation of each paper on a scale of 0-100 points, where the necessary minimum to pass is 56 points;<br/> 5) final evaluation of the seminar is the average of partial grades.</p> |                                                                                                                                                               |                   |                               |                                                   |       |        |  |  |
| Assessment methods and criteria                                | <table border="1" data-bbox="448 745 1487 842"> <thead> <tr> <th data-bbox="448 745 798 779">Subject passing criteria</th> <th data-bbox="801 745 1142 779">Passing threshold</th> <th data-bbox="1145 745 1487 779">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 781 798 842">Presentations and progress in the master's thesis</td> <td data-bbox="801 781 1142 842">56.0%</td> <td data-bbox="1145 781 1487 842">100.0%</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                   | Subject passing criteria                                                                                                                                      | Passing threshold | Percentage of the final grade | Presentations and progress in the master's thesis | 56.0% | 100.0% |  |  |
| Subject passing criteria                                       | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Percentage of the final grade                                                                                                                                 |                   |                               |                                                   |       |        |  |  |
| Presentations and progress in the master's thesis              | 56.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100.0%                                                                                                                                                        |                   |                               |                                                   |       |        |  |  |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Due to the specificity of the subject, it can not indicate basic literature. The literature is individually selected by the student for the completed thesis. |                   |                               |                                                   |       |        |  |  |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | is not required                                                                                                                                               |                   |                               |                                                   |       |        |  |  |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Adresy na platformie eNauczanie:                                                                                                                              |                   |                               |                                                   |       |        |  |  |
| Example issues/<br>example questions/<br>tasks being completed | preparing a presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                   |                               |                                                   |       |        |  |  |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                               |                   |                               |                                                   |       |        |  |  |