

| <b>STUDY MODULE DESCRIPTION FORM</b>  |  |   |
|---|--|---|
| Name of the module/subject<br><b>Proseminar</b>   |  | Code<br><b>1010601161010634114</b>  |
| Field of study<br><b>Aerospace Engineering</b>  | Profile of study<br>(general academic, practical)<br><b>general academic</b> | Year /Semester<br><b>3 / 6</b>  |
| Elective path/specialty<br><b>Aircraft Piloting</b>   | Subject offered in:<br><b>Polish</b>   | Course (compulsory, elective)<br><b>obligatory</b>  |
| Cycle of study:<br><b>First-cycle studies</b>   | Form of study (full-time, part-time)<br><b>full-time</b>                     |   |
| No. of hours<br>Lecture: <b>1</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>   |  | No. of credits<br><b>1</b>  |
| Status of the course in the study program (Basic, major, other)<br><b>other</b>   |  | (university-wide, from another field)<br><b>university-wide</b>   |
| Education areas and fields of science and art<br><b>technical sciences</b><br><b>Technical sciences</b>   |  | ECTS distribution (number and %)<br><b>1 100%</b><br><b>1 100%</b>  |
| <b>Responsible for subject / lecturer:</b><br><br>dr hab. inż. Agnieszka Wróblewska<br>email: agnieszka.wroblewska@put.poznan.pl<br>tel. 616652201<br>Wydział Inżynierii Transportu<br>Piotrowo 3 street, 60-965 Poznań   |  |   |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>   |  |   |
| 1   | <b>Knowledge</b>   | Knowledge of issues related to the implemented thesis topic   |
| 2   | <b>Skills</b>  | Can apply the scientific method in problem solving, experiments implementation and inference                                |
| 3   | <b>Social competencies</b>   | knows the limits of his knowledge and skills; can precisely formulate questions, understands the need for further education |
| <b>Assumptions and objectives of the course:</b><br>Deepening knowledge and skills on the organization and conduct of scientific and technical presentation of the results of this work   |  |   |
| <b>Study outcomes and reference to the educational results for a field of study</b>   |  |   |
| <b>Knowledge:</b><br>1. has a structured, theoretically founded general knowledge covering key issues in the field of technical thermodynamics, i.e. the theory of thermodynamic transformations, heat transfer, thermal and cooling machines - [K1A_W010]<br>2. has expanded the knowledge necessary for understanding the items profile and expertise of construction, methods of construction, manufacturing, operations, air traffic management, safety systems, the impact on the economy, society and the environment in the aviation and aerospace selected specialties - [K1A_W23]  |  |   |
| <b>Skills:</b><br>1. can obtain information from literature, the Internet, databases and other sources, can integrate the information obtained and interpret conclusions and create and justify opinions - [K1A_U04]<br>2. can use verbal communication in one additional foreign language at the level of everyday language, can describe issues in the field of the studied field of study in this language, can prepare technical documentation for descriptive and engineering tasks, transport and / or logistics - [K1A_U07]<br>3. can prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task - [K1A_U08] |  |   |
| <b>Social competencies:</b><br>1. understands the need to learn throughout life, can inspire and organize the learning process of other people - [K1A_K01]<br>2. is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions - [K1A_K02]  |  |   |

| <b>Assessment methods of study outcomes</b>   |                             |             |
|---|-----------------------------|-------------|
| assessment  |                             |             |
| <b>Course description</b>   |                             |             |
| <p>The general part: the types of qualifying work, including the diploma thesis and the rules for their implementation, the requirements for diploma theses. Formulation of a technical problem and work thesis, study of literature, methodical part of the work, presentation of research results, elaboration of insights and conclusions. Work editing rules, editing support, development of graphic elements, preparation of work for printing and duplication.</p> <p>- Specialist part: presentation of the diploma theses carried out by the authors and discussion of them.</p> |                             |             |
| <b>Basic bibliography:</b>  |                             |             |
| <b>Additional bibliography:</b>   |                             |             |
| <b>Result of average student's workload</b>   |                             |             |
| <b>Activity</b>   | <b>Time (working hours)</b> |             |
| 1. Participation in classes (according to plan)   | 15                          |             |
| 2. Preparation for the exam / pass  | 10                          |             |
| <b>Student's workload</b>   |                             |             |
| <b>Source of workload</b>   | <b>hours</b>                | <b>ECTS</b> |
| Total workload  | 25                          | 1           |
| Contact hours   | 15                          | 1           |
| Practical activities  | 0                           | 0           |