

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma Seminar		Code 1010601171010630467
Field of study Aerospace Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 4 / 7
Elective path/specialty Aircraft Engines and Airframes	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 1		No. of credits 20
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 20 100% 20 100%
Responsible for subject / lecturer: phd Łukasz Brodzik email: lukasz.brodzik@put.poznan.pl tel. 61 6650-22-14 Faculty of Transport Engineering Piotrowo 3 street, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Knowledge of issues related to the implemented thesis topic
2	Skills	Can apply the scientific method in problem solving, experiments implementation and inference
3	Social competencies	Knows the limits of his knowledge and skills; can precisely formulate questions, understands the need for further education
Assumptions and objectives of the course: -Deepening knowledge and skills on the organization and conduct of scientific and technical presentation of the results of this work		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. has basic knowledge in the field of the main branches of technical mechanics: statics of kinematics and dynamics of the material point and rigid body and strength of materials, including the basis of theory of elasticity and plasticity, performance hypotheses, methods for calculating beams, membranes, shafts, joints and other simple structural elements - [[K1A_W04]] 2. 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_W10]] 3. 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]]		
Skills:		

<p>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]]</p> <p>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]]</p> <p>3. can prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task - [[K1A_U08]]</p> <p>4. is able to plan and conduct a research experiment using measuring equipment, computer simulations, is able to perform measurements, such as temperature measurements with liquid thermometers, thermometers, thermocouples, speed and flow rate using turbine, laser and ultrasonic flowmeters, and interpret results and draw conclusions - [[K1A_U11]]</p>
<p>Social competencies:</p> <p>1. understands the need to learn throughout life, can inspire and organize the learning process of other people - [[K1A_K01]]</p> <p>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]]</p> <p>3. can think and act in an entrepreneurial way - [[K1A_K06]]</p>

Assessment methods of study outcomes		
- assessment		
Course description		
<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>		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation for classes	13	
2. Participation in classes	15	
3. Preparation of engineering diploma thesis	200	
4. Preparation for assessment	4	
5. Participation in assessment	2	
Student's workload		
Source of workload	hours	ECTS
Total workload	234	20
Contact hours	17	5
Practical activities	217	15