

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Passing Project		Code 1010621221010624451
Field of study Transport	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty Aircraft Transport	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 4		No. of credits 6
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		ECTS distribution (number and %) 6 100%
Responsible for subject / lecturer: dr hab. inż. Władysław Kozak email: Wladyslaw.Kozak@put.poznan.pl tel. 61 665 2791 Faculty of Working Machines and Transportation ul. Piotrowo 3 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of the ecology of transport. Fundamentals of computer-aided design
2	Skills	Can apply the scientific method to solve problems, implement experiments and reasoning
3	Social competencies	Knows the limits of their own knowledge and skills, able to clearly formulate questions, understands the need for further education
Assumptions and objectives of the course: Exercise self-execution of projects mainly in the field of ecology and economics of transport, analysis and evaluation.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. He knows the principle of measurement systems and test equipment - [K1A_W16] 2. He has in-depth knowledge of the ecology of transportation, necessary to solve problems in a selected area of specialization - [K1A_W21] 3. Has knowledge of current developments in terms of transport environment - [K1A-W24]		
Skills:		
1. He can decide on how to improve the knowledge and skills in the chosen specialty - [K1A_U01] 2. Able to communicate effectively both with specialists and niespecjalistami on issues relevant to the area being studied - [K1A_U02] 3. Can apply the scientific method to solve problems, implement research and reasoning - [K1A_U17]		
Social competencies:		
1. Is aware of and understands the importance and impact of non-technical aspects of engineering, including its impact on the environment and the associated responsibility for decisions - [K1A_K02] 2. Able to set priorities for implementation specified by you or other tasks - [K1A_K05] 3. He can think and act in a creative and enterprising - [K1A_K07]		
Assessment methods of study outcomes		

Final test		
Course description		
Technical design element or component airframe, developed on the basis of the output provided by the teacher. The project includes: functional and strength calculations, the description of designed construction, operation manual and part of the drawing.		
Basic bibliography:		
1. W. Cheda, M. Malski ? Techniczny poradnik lotniczy. Silniki. WKiŁ, Warszawa 1984		
2. B. Branowski - Metody twórczego rozwiązywania problemów inżynierskich, Wielkopolska Korporacja Techniczna NOT, Poznań 1999		
3. Lewitowicz J. (red) ? Problemy badań i eksploatacji techniki lotniczej. Wydawnictwo ITWL, Warszawa 2006.		
Additional bibliography:		
1. Zb. Kłós (red.) ? Rozprawy naukowe. Wydawnictwo Politechniki Poznańskiej, Poznań 2011		
Result of average student's workload		
Activity	Time (working hours)	
1. There are prepared interim work	122	
2. Consultation	17	
Student's workload		
Source of workload	hours	ECTS
Total workload	139	6
Contact hours	17	1
Practical activities	122	5