

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Flight rules		Code 1010601131010637511
Field of study Aerospace Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty Aircraft Piloting	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: 2 Classes: - Laboratory: - Project/seminars: -		No. of credits 1
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 %) 1 100% 1 100%
Responsible for subject / lecturer: mgr inż. Kajetan Szymańczyk email: kajetan.szymanczyk@gmail.com tel. +48 781 325 595 Faculty of Transport Engineering ul. Piotrowo 3 60-965 Poznań		Responsible for subject / lecturer: dr hab. inż. Agnieszka Wróblewska email: agnieszka.wroblewska@put.poznan.pl tel. +48 784 698 595 Faculty of Transport Engineering ul. Piotrowo 3 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	in the field of aircraft control [PRK4]
2	Skills	can apply the scientific method in solving problems [PRK4]
3	Social competencies	knows the limits of own knowledge and skills; can work in a group [PRK4]
Assumptions and objectives of the course: familiarize the student with the operation of aircraft control systems		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. has detailed knowledge related to selected issues in the field of navigation and flight techniques and the use of flight simulators - [K1A_W16]		
2. has detailed knowledge related to selected issues in the field of flight rules, its preparation, as well as related operational procedures - [K1A_W17]		
Skills:		
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]		
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 descriptively - drawing engineering, transport and / or logistic tasks - [K1A_U07]		
Social competencies:		
1. understands the need to learn throughout life; can inspire and organize the learning process of other people - [K1A_K01]		
2. can interact and work in a group, taking on different roles in it - [K1A_K03]		
3. able to properly define the priorities for the implementation of a task set by himself or others - [K1A_K04]		
Assessment methods of study outcomes		

computer exam using Aviationexam software		
Course description		
The aircraft as a control object. Aircraft quality indicators. Aircraft control in longitudinal motion. Aircraft control in lateral movement. Automatic landing systems. Active airplane control.		
Basic bibliography:		
1. Principles of Flight (JAR Ref 080). JAA ATPL Training. Germany 2004		
2. Podstawy Aerodynamiki i Mechaniki Lotu Abłamowicz A., Nowakowski W., Wydawnictwo Komunikacji i Łączności, Warszawa 1980		
3. Praktyczna aerodynamika i mechanika lotu samolotu odrzutowego, w tym wysokomanewrowego Milkiewicz A., Wydawnictwo ITWL, Warszawa 2009		
4. Podstawy eksploatacji statków powietrznych Lewitowicz J., Wydawnictwo Instytutu Technicznego Wojsk Lotniczych, Warszawa 2001		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in classes (according to plan)	30	
Student's workload		
Source of workload	hours	ECTS
Total workload	30	1
Contact hours	30	1
Practical activities	0	0