

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Pilot technology and flight simulators		Code 1010601161010637636
Field of study Aerospace Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 6
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: - Classes: 2 Laboratory: - Project/seminars: -		No. of credits 3
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 %) 3 100% 3 100%
Responsible for subject / lecturer: mgr Wojciech Nowaczyk email: wojciech.nowaczyk@put.poznan.pl tel. +48 500 123 360 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 airframe assemblies, control systems, hydraulic, pneumatic, fuel, air-conditioning and emergency systems [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: Construction and operating rules of an aircraft simulator. Daily flights VFR. IFR daily flights. Approach landing approach. Navigating the airplane on the basis of instruments and ground radio navigation means. Assessment of the situation and proper operation in special situations during the flight. Principles of conducting radio correspondence.		
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_16] 2. has broadened knowledge necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, operation, air traffic management, security systems, impact on the economy, society and the aviation and aerospace environment - [K1A_W23]		
Skills: 1. 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. 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] 3. can interact and work in a group, taking on different roles in it - [K1A_K03]		
Assessment methods of study outcomes		

oral exam		
Course description		
Ability to interpret the indications of on-board instruments, maneuvering the plane in a horizontal and inclined plane, circle flight, en-route, flight to the geographical orientation zone of the take-off and landing airport, and navigating the airplane based on instrument and ground radio navigation indications. Knowledge of the phenomena occurring during emergency situations in flight. Ability to act in emergency situations.		
Basic bibliography:		
<ol style="list-style-type: none"> 1. Instrukcja użytkowania w locie Cessna 150 SP-GZP 2. Instrukcja użytkowania w locie Cessna 152 SP-POZ 3. Instrukcja użytkowania w locie Cessna 172 SP-KMB 4. Instrukcja użytkowania w locie Extra 330LX SP-UTA 5. Pilots Guide Garmin Aera 500 6. Pilots Guide Garmin GMA 342 7. Pilots Guide Garmin GNT 650 8. Pilots Guide Garmin GTX 328 9. Instrukcja użytkowania w locie Zlin 242L SP-UTB 		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in classes (according to plan)	30	
2. Preparation for the exam / pass	20	
3. Participation in the exam / pass	1	
Student's workload		
Source of workload	hours	ECTS
Total workload	25	1
Contact hours	17	1
Practical activities	24	1