

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Communication 1		Code 1010604111010638521
Field of study Aerospace Engineering	Profile of study (general academic, practical) general academic	Year /Semester 1 / 1
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: 9 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 2 100% 2 100%
Responsible for subject / lecturer: Dr eng. Wojciech Prokopowicz email: wojtek379@wp.pl tel. +48 606 638 410 Faculty of Transport Engineering Piotrowo 3 street, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	In the field of computer science and communication systems.
2	Skills	He is able to apply the scientific method in solving problems.
3	Social competencies	He knows the limits of his knowledge and skills; can work in a group.
Assumptions and objectives of the course: -- Familiarize the student with the technical-tactical capabilities of communications equipment and communication systems and applicable regulations in the field of work through technical means of communication.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student has a structured, theoretically founded general knowledge covering key issues in the field of on-board equipment, as well as on-board and terrestrial electronic communication systems - [[K1_W09]]		
Skills:		
1. Student is able to obtain information from literature, the internet, databases and other sources. Is able to integrate the obtained information, interpret and draw conclusions from them and create and justify opinions - [- [K1A_U04]]		
2. Student knows how to use verbal communication with 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. Student understands the need to learn throughout life; can inspire and organize the learning process of other people - [[K1_K01]]		
2. Student is able to interact and work in a group, assuming different roles in it - [[K1_K03]]		
3. Student is able to properly determine the priorities for the implementation of tasks specified by himself or others - [[K1_K04]]		
Assessment methods of study outcomes		

-Written test		
Course description		
-Basic issues related to the communication and information systems. Terminal and commutation devices. Technical characteristics of digital and analogue aviation type radios. Rules and methods of organizing communication. Regulations for conducting radio correspondence. Security and protection of communications. Using technical means of communication. Morse alphabet. Practical communication and the use of aeronautical phraseology using radio sets during exercise.		
Basic bibliography:		
<ol style="list-style-type: none"> 1. Procedury służb Żegluga powietrznej Zarządzanie Ruchem Lotniczym (PL-4444). 2. Laskowski R., Łączność. Szkolenie samolotowe EASA, Podręcznik zgodny z PART ? FCL, Wydawnictwo Pileus, 2014. 3. Communication (JAR Ref 090); JAA ATP1 Training; Germany 2004; 4. Załącznik nr 10 do Konwencji o międzynarodowym lotnictwie cywilnym. Łączność lotnicza, ICAO 2007 5. Skróty i kody stosowane w międzynarodowym lotnictwie cywilnym PANS-ABC, PL-8400 6. http://www.ulc.gov.pl/pl/prawo/prawo-mi%C4%99dzynarodowe/206-konwencje 		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation for the exam	9	
2. Participation in the exam	5	
3. Participation in lectures	2	
Student's workload		
Source of workload	hours	ECTS
Total workload	9	2
Contact hours	9	2
Practical activities	0	0