

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Communication 1		Code 1010601111010638521
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) full-time	
No. of hours Lecture: 1 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: mgr Tomasz Zdziarski email: tomasz.zdziarski@put.poznan.pl tel. +48 500 123 362 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 computer science and communication systems [PKR4]
2	Skills	can apply the scientific method in solving problems [PKR4]
3	Social competencies	knows the limits of own knowledge and skills; can work in a group [PKR4]
Assumptions and objectives of the course: familiarizing 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. has a structured, theoretically founded general knowledge covering key issues in the field of on-board equipment, as well as on-board and ground-based electronic communication systems - [K1A_W09]		
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 others - [K1A_K01] 2. can interact and work in a group, taking on different roles in it - [K1A_K03] 3. is able to properly define the priorities for the implementation of a task set by himself or others - [K1A_K04]		
Assessment methods of study outcomes		
Lecture: - assessment of knowledge and skills demonstrated on written exam		

Course description		
<p>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. Operating documents and secret command. Using technical means of communication.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Communication (JAR Ref 090). JAA ATP1 Training. Germany 2004 2. Procedury służb Żegluga powietrznej Zarządzenie Ruchem Lotniczym (PL-4444) 		
<p>Additional bibliography:</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation for classes	10	
2. Participation in classes (according to plan)	15	
3. consultations	1	
4. Preparation for the exam / pass	20	
5. Participation in the exam / pass	1	
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	18	1
Practical activities	0	0