

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Man - possibilities and limitations 3		Code 1010601141010637633
Field of study Aerospace Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
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: 1 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: dr n. med. Karol Szymański email: rofe@tlen.pl tel. +48 602 631 428 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 general and air psychology, the essence and functioning of the cognitive, emotional and motivational processes of man [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: familiarizing the student with the human structure and emotional and motivational processes of a man functioning in normal, difficult and extreme situations. Basic human cognitive processes - perception and attention and their importance in the process of information management in the human - technical object system. The dynamics of small social groups and its application in the process of constructing effective task forces in aviation. Managing crew / team resources (CRM).		
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 human capabilities and limitations when operating the aircraft in flight, as well as the capabilities and limitations of the air ambulance system - [K1A_W15]		
2. has basic knowledge necessary to understand social, economic, legal and other non-technical conditions of engineering activities - [K1A_W24]		
3. knows the general principles of creating and developing forms of individual entrepreneurship, also taking into account time management, as well as the ability to correctly self-present, using knowledge in the field of science and scientific disciplines, appropriate for aviation and astronautics - [K1A_W26]		
Skills:		
1. knows how to use native and international languages to the extent that it allows to understand technical texts and write technical descriptions of machines in the field of aviation and astronautics (technical terminology) - [K1A_U01]		
2. 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]		
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		
<p>Knowledge of the structure of the human body. Functioning of individual systems and organs. Techniques of negotiation and conflict resolution. Effective conflict management. Error as a psychological category. Theory and model of human error formation. The sources of their formation. Hypotheses for translating reality. Principles of cooperation with people, techniques of motivating subordinates, time management techniques, methods of selection, assessment and development of personnel, negotiation and conflict techniques, techniques of organizing staff work in garrison and polygonal conditions, sources of human error, with particular reference to air errors. The dynamics of functioning of small social groups, crew resource management (CRM), operational risk management (ORM), situational awareness, risk areas and propensity to make mistakes.</p>		
Basic bibliography:		
<p>1. Szajnar S.: ?Czynnik ludzki w obsłudze urządzeń technicznych?, Skrypt WAT, Warszawa 2010 2. Scott W. E., Cummings L. L.: ?Zachowanie człowieka w organizacji?, Państwowe Wydawnictwo Naukowe, 1983 3. Janowska Z.: ?Zarządzanie zasobami ludzkimi?, Polskie Wydawnictwo Ekonomiczne, 2010</p>		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in classes (according to plan)	15	
2. Participation in the exam / pass	1	
3. Preparation for the exam / pass	10	
Student's workload		
Source of workload	hours	ECTS
Total workload	26	1
Contact hours	16	1
Practical activities	0	0