

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Man - possibilities and limitations 2		Code 1010604131010638067
Field of study Aerospace Engineering	Profile of study (general academic, practical) general academic	Year /Semester 2 / 3
Elective path/specialty Aircraft Engines and Airframes	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: 9 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 general and air psychology, the essence and functioning of the cognitive, emotional and motivational processes of man.
2	Skills	He can apply the scientific method in solving problems, carrying out experiments and gain conclusions
3	Social competencies	He knows the limits of his knowledge and skills; can work in a group
Assumptions and objectives of the course: familiarizing the student with the emotional and motivational processes of a man functioning in normal, difficult and extreme situations. The basic human cognitive processes - perception and attention and their significance in the process of information management in the human-technological 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 while servicing aircraft in flight - [[K1_W15]] 2. has basic knowledge necessary to understand social, economic, legal and other non-technical conditions of engineering activities - [[K1_W24]]		
Skills: 1. knows how to use native and international languages to the extent that enables understanding technical texts and writing technical descriptions of machines in the field of aviation and astronautics using technical dictionaries - [[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 - [[K1_K01]] 2. is able to interact and work in a group, assuming different roles in it - [[K1_K03]] 3. 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		
Techniques for negotiation and conflict solution. Effective conflict management. Error as a psychological category. Theory and model of human error formation and sources. Hypotheses for translating reality. principles of cooperation with people, motivation subordinates techniques, time management techniques, methods of selection, assessment and development of human resources, negotiation and conflict techniques, sources of human error, with particular emphasis in air. The dynamics of functioning of small social groups, crew resource management (CRM), operational risk management (ORM), special situational awareness, risk areas and propensity to make mistakes.		
Basic bibliography:		
1. Ustawa Prawo lotnicze, stan prawny aktualny na dzień: 05.10.2017, Dz.U.2017.0.959 t.j. - Ustawa z dnia 3 lipca 2002 r. - Prawo lotnicze		
2. Barański s.: ?Medycyna lotnicza i kosmiczna?, Państwowy Zakład Wydawnictw Lekarskich, 1977		
3. Szajnar S.: ?Czynnik ludzki w obsłudze urządzeń technicznych?, Skrypt WAT, Warszawa 2010		
4. Janowska Z.: ?Zarządzanie zasobami ludzkimi?, Polskie Wydawnictwo Ekonomiczne, 2010		
5. Scott W. E., Cummings L. L.: ?Zachowanie człowieka w organizacji?, Państwowe Wydawnictwo Naukowe, 1983		
6. Fredric Bohm i Stefan Laurell, Rozwiązywanie konfliktów. Praktyczny poradnik dla pracodawców i menedżerów, Wydanie 2, styczeń 2009, E-book		
7. Stephen Robbins, Zachowania w organizacji, PWE 2004		
8. Aleksy Poczowski, Zarządzanie zasobami ludzkimi, PWE 2003		
9. Zbigniew Nęcki, Komunikacja międzyludzka, Antykwia 2000		
10. Artykuły dostępne w biuletynie Wojskowego Instytutu Medycyny Lotniczej		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation for the exam	15	
2. Participation in the exam	5	
3. Participation in lectures	2	
Student's workload		
Source of workload	hours	ECTS
Total workload	30	2
Contact hours	30	2
Practical activities	0	0