STUDY MODULE DESCRIPTION FORM						
	f the module/subject eminar		-	^{rode} 010621261010624114		
Field of	study sport		Profile of study (general academic, practical) (brak)	Year /Semester		
	path/specialty	craft Transport	Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of		•	Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of h	ours			No. of credits		
Lectur	e: 1 Classes	s: - Laboratory: -	Project/seminars:	1		
Status o	-	program (Basic, major, other)	(university-wide, from another fiel			
		(brak)	(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			1 100%		
Responsible for subject / lecturer: Prof. Jerzy Merkisz, D.Sc, email: jerzy.merkisz@put.poznan.pl tel. 61 665 22 08 Faculty of Machines and Transport 3 Piotrowo street, 60-965 Poznan, Poland						
		is of knowledge, skills an	d social competencies:			
1	Knowledge	Basic knowledge of physics, mathematics, economics, of course subjects				
2	Skills	Support basic computer program the research	ns MS Office, CAD, and others, d	epending on the interest of		
3	Social competencies	Teamwork skills				
Assumptions and objectives of the course:						
	• •	paration for a thesis? engineering	of each graduate student.			
	Study outco	mes and reference to the	educational results for a	field of study		
Know	/ledge:					
 Has a basic knowledge of what to do to solve a given problem - [[K1A_W14]] Has a basic knowledge related to the editing of texts containing the results of their analyzes and solutions - [[K1A_W16]] Has a wider knowledge of the issues in the field of air transport - [[K1A_W24]] 						
Skills		leave for the Call of the Call of the				
		lem in the field of air transport [511		
2. Is able to analyze the cause and effect of the problem and propose a solution to - [[K1A_U08]]						
Social competencies:						
 Understands the need for learning throughout life - [[K1A_K01]] Is aware of the importance and understand the business impact of non-technical engineer, particularly in terms of the impact of aviation on the environment [[K1A_K02]] 						
Assessment methods of study outcomes						

The discussion in the class, using individual analyzes and studies undertaken in terms of student issues in the field of air transport. Jobs final.

Course description

Structure of engineering : a method for analyzing the literature to determine the state of knowledge in the issue of a recognized subject of work , the formulation of the research problem (essential also work) , the presentation of research methodology (analytical , experimental) and their results, formulation of findings and conclusions . Quoting foreign studies . Overview (sequentially) implemented theses : the referring shall demonstrate knowledge of the latest developments in the field of science and technology (national and foreign publications) . General discussion on the topic of this work and accepted way of its implementation. General characteristics of the thesis. Formal requirements and editorial thesis. Structure and types of dissertations. Selection of literature. Development of source materials and links. Develop a plan of work. Subject , purpose timetable for implementation. The development of the research program. Model tests. Experimental studies . Simulation studies . Optimization and verification of test results. Preliminary reporting to work. Discussion of current performance. Draw conclusions . Second referencing work. Subject , the ultimate goal , the scope of work. Talk students. Notes to editors . The final presentation of the work. Preparation and development of guidelines for the thesis defense . Examination diploma seminar .

Basic bibliography:

1. Żylicz. M .Międzynarodowe prawo lotnicze , Lexis, Warszawa 2011

2. B. Branowski - Metody twórczego rozwiązywania problemów inżynierskich, Wielkopolska Korporacja Techniczna NOT, Poznań 1999

3. Lewitowicz J. (red) ? Problemy badań I eksploatacji techniki lotniczej. Wydawnictwo ITWL, Warszawa 2006.

Additional bibliography:

1. Zb. Kłos (red.) ? Rozprawy naukowe. Wydawnictwo Politechniki Poznańskiej, Poznań 2011

Result of average stud	dent's workload	
Activity	Time (working hours)	
1. Preparation for lectures		40
2. Participation in lectures	15	
3. Office hours		10
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	65	1
Contact hours	25	1
Practical activities	0	0