		STUDY MODULE D	ESCRIPTION FORM			
Name of	f the module/subject			Code		
Field of	study		Profile of study	Year /Semester		
Tran	sport		(general academic, practical)	3/6		
Elective	path/specialty		Subject offered in:	Course (compulsory, elective)		
21000110	Air	craft Transport	Polish	obligatory		
Cycle of	f study:	-	Form of study (full-time,part-time)	·		
First-cycle studies			full-time			
No. of h	ours			No. of credits		
Lecture: - Classes: - Laboratory: -			Project/seminars:	4 6		
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another fig	eld)		
		(brak)	(brak)			
Education areas and fields of science and art				ECTS distribution (number and %)		
techr	nical sciences			6 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for subjec	t / lecturer:		
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tel. ( Faci	61 665 22 26 ulty of Machines and I	Fransport	email: jaroslaw.markowski@put.poznan.pl, maciej bajerlejn@put poznan pl			
3 Pi	otrowo street, 60-965	Poznan, Poland	tel. 61 665 27 05, 61 665 27 91			
			Faculty of Machines and Transport			
1	Knowledge	Basic knowledge of physics, mathematics, economics, major subjects.				
2	Skills	Support basic computer program the research	ms MS Office, CAD, and others, depending on the interest of			
3	Social competencies	Ability to work in a team.				
Assu	mptions and obj	ectives of the course:				
Getting the fiel	g acquainted with the r d of air transport.	nethodology of solving engineerir	ng problems, based on selected	issues of system and process		
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Has	a basic knowledge of	what to do to solve a given proble	em - [K1A_W14]			
2. Has a basic knowledge related to the editing of texts containing the results of their analyzes and solutions - [K1A_W16]						
3. Has	a wider knowledge of	the issues in the field of air transp	port - [K1A_W24]			
Skills						
1. Is at	ble to identify the problem	em in the field of air transport	[K1A_U07]	01		
2. is at	al competencies	se and effect of the problem and p	$\frac{1}{1000000} = \frac{1}{10000000000000000000000000000000000$	oj		
	erstands the need for	learning throughout life - [K14 Ki	011			
2. Is av	vare of and understan	ds the validity of the non-technics	al aspects and effects of enginee	ring activities, including its		
impact	on the environment a	nd the associated responsibility for	or decisions - [K1A_K02]			
		Assessment metho	ds 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						
The course is project-based. Classes are carried out in working groups where participants determine what they want the issue to be addressed. Students identify scientific field and isolate the problem area of ??the phenomena of the wider air transport, acting on the selected issue. Conduct an analysis of the issue of cause and effect and are looking for ways to resolve it. Program content contained in the wider field of air transport and are technical, organizational, logistical and economical.						
Basic bibliography:						
1. W. Cheda, M. Malski? Techniczny poradnik lotniczy. Silniki. WKiŁ, Warszawa 1984						
<ol> <li>B. Branowski - Metody twórczego rozwiązywania problemów inżynierskich, Wielkopolska Korporacja Techniczna NOT, Poznań 1999</li> </ol>						
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 student's workload						
Activity	Time (working hours)					
1. Preparing for classes		60				
2. Participation in classes	30					
3. Office hours	5					
Student's workload						
Source of workload	hours	ECTS				
Total workload	95	6				
Contact hours	35	2				
Practical activities	60	4				