1010621251010610379

3/5

Year /Semester

Code

Name of the module/subject

Field of study

Transport

Exploitation of Technical Means of Transport

Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective)	
Aircraft Transport				obligatory	
Cycle of study:			Form of study (full-time,part-time)		
First-cycle studies			full-time		
No. of	hours			No. of credits	
Lectu	ıre: 1 Classes	s: 1 Laboratory: -	Project/seminars:	2	
Status	•	program (Basic, major, other)	(university-wide, from another field	·	
		(brak)	(brak)		
Educa	tion areas and fields of sci	ence and art		ECTS distribution (number and %)	
tech	nical sciences			2 100%	
dr em tel. Wy	ponsible for subje inż. Michał Libera nail: michal.libera@put. . +4861 665-2223 ydział Maszyn Roboczy Piotrowo 3 60-965 Poz	poznan.pl ch i Transportu			
Prer	equisites in term	s of knowledge, skills an	d social competencies:		
1	Knowledge		c knowledge of the means of transport and operation of their basic knowledge of statistics and reliability of technical objects.		
2	Skills	The student is able to analyze a justify opinions	lyze and synthesize information, draw conclusions, formulate and		
3	Social competencies	The student is aware of the impo object	ortance of maintenance and service	e in the life cycle of the	
Assı	umptions and obj	ectives of the course:			
Acqui	ring the ability to formu	late and solve simple problems of	operation (operation and mainten	ance) means of transport	
	Study outco	mes and reference to the	educational results for a	field of study	
Kno	wledge:				
1. He knows the concept of exploitation, maintenance, operation, failure, durability, reliability, limit state - [K1A_W22]					
		erns of changes in the technical st			
		fitness functional and error handli			
	=	- · · · · · · · · · · · · · · · · · · ·	rrection, periodic reviews and test	-	
		technical services, operating sche	edules, operating levels - [K1A_W	15]	
Skill	s:				
1. He	can create a statistical	description of the state changes i	n the operational - [K1A_U18]		
	-	= :	graphical method and analytical)	- [K1A_U18]	
		causes and consequences of failu	ures - [K1A_U01]		
Soci	al competencies:				
	e student is aware of th omic and ecological - [K		f means of transport in the aspect	s: technical, security,	

STUDY MODULE DESCRIPTION FORM

Profile of study

(brak)

(general academic, practical)

Assessment methods of study outcomes

Faculty of Working Machines and Transportation

The audit work, which allow the assessment of the skills acquired by the student in the analysis of operational data.

Test and personal interview, the essence of which is to check the understanding of the substance of the issues the technical operation of the means of transport as described in the contents of the program.

Course description

1) Operation Support

Technical state: the parameter value - tolerance, load - bearing capacity, quality - standard (reference). The useful life between the damage.

2) Changes in the state of technical

Typical waveforms changes . Technical criteria for the technical condition

3) Statistical description of changes in the operational

Numerical characteristics of the random variable . Functional characterization of the random variable

4) Evaluation of the potential equipment and process

Determination of the tolerance limits . Random changes in load and capacity. Factor of safety and security of supply

5) Analysis of data

Analysis of the data assuming the Weibull distribution (graphical method and analytical method) . Evaluation of an average period between damage and preparedness

6) Analysis of the types, causes and consequences of disablement

Unfitness functional. Errors use

7) Handling

Handling operational and correction . Periodic reviews and audits of state. The technical services : Strategies for handling, operating schedules , operating levels

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)		
1. Participation in lectures and exercises	30		
2. Temember the content of the courses	8		
3. Consultation	2		
4. Exam Preparation	7		
5. Participation in the exam	3		

Student's workload

Source of workload	hours	ECTS
Total workload	50	2
Contact hours	35	1
Practical activities	0	0