		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject ings of Rotor Ma	achines		Code 1010631251010622831		
Field of	study sport		Profile of study (general academic, practical) (brak)	Year /Semester		
	path/specialty		Subject offered in:	3 / 5 Course (compulsory, elective)		
Elective		g of Pipeline Transport	Polish	obligatory		
Cycle of			Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of h	ours			No. of credits		
Lectur	e: 2 Classes	s: - Laboratory: -	Project/seminars:	- 2		
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another fi	eld)		
		(brak)		brak)		
Education areas and fields of science and art				ECTS distribution (number and %)		
techr	ical sciences			2 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for subjec	t / lecturer:		
dr ir	iż. Jarosław Kałużny		dr inż. Michał Libera			
	il: jaroslaw.kaluzny@	email: michal.libera@put.po	oznan.pl			
	+4861 665-2705		tel. +4861 665-2223			
	ulty of Working Machi Piotrowo 3 60-965 Poz	nes and Transportation	Faculty of Working Machine ul. Piotrowo 3 60-965 Pozna			
		s of knowledge, skills and				
		_				
1	Knowledge	The student has knowledge of the basics of machine design. The student has a basic knowledge of mathematical analysis.				
2	Skills	The student is able to analyze a justify opinions	e student is able to analyze and synthesize information, draw conclusions, formulate and ify opinions			
3	Social competencies	Student demonstrates the eleme	entary social skills appropriate to	o the location and situation		
Assu	mptions and obj	ectives of the course:				
unders Iubricat		and operation of bearings of rotor	machines in connection with the	problems of friction and		
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Knov bearing		lassification of bearings, understa	nd the differences in the structu	re and properties of the		
-		eir applications of bearings [-]				
3. He knows a theories of friction and lubrication of bearings - [-]						
4. He knows the basic equations of fluid mechanics applied to the oil film [-]						
5. He knows forms of damage to the bearings and methods of diagnosis - [-]						
		of the factors affecting the design of	of the bearings and bearing unit	s - [-]		
Skills						
1. He can organize a rational exploitation of bearing rotor machines - [-]						
2. He can choose the type of bearings appropriate to the conditions of work - [-]						
	an design a simple be					
	I competencies:					
 The student is aware of the impact bearing on safety, reliability and efficiency of rotating machinery - [-] Able to independently develop their knowledge of bearings of rotating machinery - [-] 						
		alon their knowledge of hearings (trototing mochings []			

Assessment methods of study outcomes

Discussions during lecture

Test and personal interview, the essence of which is to check the understanding of the substance of the issues described in the contents of the program

Course description

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Basic bibliography:

1. Barwell F.T.: Łożyskowanie. Wydawnictwo Naukowo-Techniczne, Warszawa 1984

2. Krzemiński-Freda H.: Łożyska toczne PWN, Warszawa 1989

3. Katalogi łożysk tocznych

4. Iskra A. Parametry filmu olejowego w węzłach mechanizmu tłokowo-korbowego silnika spalinowego Wydawnictwo Politechniki Poznańskiej, Poznań 2001

Additional bibliography:

1. Zimbardo P, Psychology and Life, 13th Edition, Allyn and Bacon, Boston, Massachusetts, USA, 1992, tłumaczenie polskie PWN

Activity	Time (working hours)			
Student's workload				
Source of workload	hours	ECTS		
Total workload	50	2		
Contact hours	38	2		
Practical activities	0	0		