_	
-	
Q	
α	
Ν	
0	
Q	
÷	
٦	
α	
₹	
≥	
≷	
<	
`:	
0	
ţ	
+	
4	

		STUDY MODULE D	FS	CRIPTION FORM			
Name o	f the module/subject	OTODI MODOLL D			Code 1011101421	011002598	
Field of study			Profile of study (general academic, practical) (brak) Year /Semester 1 / 2		1 / 2		
Logistics - Full-time studies - First-cycle studies Elective path/specialty -			Subject offered in: Polish	Course (compulsory, elect			
Cycle of	Cycle of study:			m of study (full-time,part-time)			
First-cycle studies			full-time				
No. of h	iours				No. of credits	3	
Lectur	re: 30 Classes	s: 15 Laboratory: -		Project/seminars:	-	3	
Status	· ·	program (Basic, major, other)	(university-wide, from another fi			
		(brak)			brak)		
Educati	on areas and fields of sci	ence and art			ECTS distribution and %)	ution (number	
-ul.	rdział Elektryczny Insty Piotrowo 3a 60-965 P equisites in term Knowledge	•					
2	Skills	Student can operate a calculator, a computer and use proposed literature.					
3	Social competencies	Student recognizes the necessity in deepening his knowledge.					
Assu	mptions and obj	ectives of the course:					
to acqu	uire basic statistical m	ethods and develop the ability to u	ise t	hese methods to solve prac	tical engineering	g problems	
	Study outco	mes and reference to the	ed	ucational results for	a field of stu	udy	
Knov	vledge:						
1. Stud	dent has a basic knowl	ledge of probability theory - [K1A_	W04	1]]			
2. 2. probler	Student has a basi ms [K1A_W04]]	ic knowledge of descriptive and m	athe	matical statistics, useful to s	solve practical e	engineering	
Skills	S :						
1. Student is able to interpret the information from a sample and to draw conclusions - [K1A_U05]							
Socia	al competencies:						
1. Stud	dent is able to argue t	he necessity of continuous learnin	g -	[K1A_K01]			

Assessment methods of study outcomes

-Forming score:

on the basis of written tests and oral answers.

Summary score:

the average points obtained by the written tests.

Course description

-The basic concepts of probability will be discussed i.e.: probability space, random variables, elements of descriptive statistics, methods of statistical inference - estimation, hypothesis verification and analysis of correlation and regression.

Basic bibliography:

- 1. Krysicki W., Bartos J., Dyczka W., Królikowska K., Wasilewski M., Rachunek prawdopodobieństwa i statystyka matematyczna w zadaniach, cz. I, II. Wydawnictwo PWN, Warszawa
- 2. Bobrowski D., Łybacka K., Wybrane metody wnioskowania statystycznego. Wydawnictwo Politechniki Poznańskiej, Poznań

Additional bibliography:

- 1. Plucińska A., Pluciński E., Probabilistyka, Wydawnictwo WNT, Warszawa
- 2. Jasiulewicz H., Kordecki W., Rachunek prawdopodobieństwa i statystyka matematyczna. Przykłady i zadania. Oficyna wydawnicza GiS, Wrocław
- 3. Kordecki W., Rachunek prawdopodobieństwa i statystyka matematyczna. Definicje, twierdzenia, wzory. Oficyna wydawnicza GiS, Wrocław

Result of average student's workload

	Activity	Time (working hours)
1. 1.	Lectures participation	30
2. 2.	Classes participation	15
3. 3.	Cunsultaion	4
4. 4.	Classes preparation	30
5. 5.	Test preparation	15
6. 6.	Test	2
7. 7.	Results discussion	2

Student's workload

Source of workload	hours	ECTS
Total workload	98	3
Contact hours	53	2
Practical activities	15	1