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		STUDY MODULE DI	ESCRIPTION	ON FORM			
	f the module/subject nematical statisti	cs			Code 1011105311011000139		
Field of	study		Profile of s		Year /Semester		
Engineering Management - Part-time studies -			(brak)	cademic, practical)	1/1		
Elective	Elective path/specialty			fered in:	Course (compulsory, elective)		
		stems and Ergonomics		Polish	obligatory		
Cycle of	f study:		Form of study (f	full-time,part-time)			
	Second-c	ycle studies		part-time			
No. of h					No. of credits		
Lectur	Clabbook		Project/se		- 3		
Status		program (Basic, major, other)	(university-w	ide, from another fi			
Educati	on areas and fields of sci	(brak)			(brak)		
Educati	on areas and neids or scr	ence and art			ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:					
-dr l	Elżbieta Wieczorek						
	ail: -elzbieta.wieczorek	@put.poznan.pl					
	-+48(61)6652349	And Makerine and de					
	dział Elektryczny Insty Piotrowo 3a 60-965 P						
Prere	equisites in term	s of knowledge, skills and	d social co	mpetencies:			
1	Knowledge	Student knows basic notions in s	Student knows basic notions in set theory, logic and calculus.				
2	Skills	Student can operate a calculator, a computer and use proposed literature.					
3	Social	Student recognizes the necessity in deepening his knowledge.					
3	competencies						
Assu	mptions and obj	ectives of the course:					
to acquire basic statistical methods and develop the ability to use these methods to solve practical engineering problems							
	Study outcomes and reference to the educational results for a field of study						
Knov	vledge:						
1. Stud	Student has a basic knowledge of probability theory - [K1A_W04]]						
2. 2. Student has a basic knowledge of descriptive and mathematical statistics, useful to solve practical engineering							
problems [K1A_W04]] Skills:							
Student is able to interpret the information from a sample and to draw conclusions - [K1A_U05]							
	al competencies:		nu to ulaw COI	IIII - CIIOICUIOI	<u></u>		
		he necessity of continuous learning	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.

Faculty of Engineering Management

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	10
2. 2.	Classes participation	10
3. 3.	Cunsultaion	2
4. 4.	Classes preparation	10
5. 5.	Test preparation	10
6. 6.	Test	2
7. 7.	Results discussion	2

Student's workload

Source of workload	hours	ECTS
Total workload	46	3
Contact hours	36	2
Practical activities	10	1