		STUDY MODULE DI	ESCRIPTION FORM					
	of the module/subject nematical statisti	cs	Code 1011105311011000139					
Field of	study		Profile of study	Year /Semester				
Eng	ineering Manage	ment - Part-time studies -	(general academic, practical) (brak)	1/1				
Elective path/specialty Enterprise Management			Subject offered in: Polish	Course (compulsory, elective) obligatory				
Cycle o	f study:		Form of study (full-time,part-time)					
Second-cycle studies			part-time					
No. of h	nours			No. of credits				
Lectu	re: 10 Classe	s: 10 Laboratory: -	Project/seminars:	. 3				
Status	-	program (Basic, major, other)	(university-wide, from another fie					
		(brak)	(1	orak)				
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)				
Responsible for subject / lecturer: -dr Elżbieta Wieczorek email: -elzbieta.wieczorek@put.poznan.pl tel+48(61)6652349								
	/dział Elektryczny Inst							
	Piotrowo 3a 60-965 P							
Prere	equisites in term	is of knowledge, skills and	d social competencies:					
1	Knowledge	Student knows basic notions in s	set theory, logic and calculus.					
2	Skills	Student can operate a calculator	, a computer and use proposed	literature.				
3	Social competencies	Student recognizes the necessity	y in deepening his knowledge.					
Assu	imptions and obj	ectives of the course:						
to acq	uire basic statistical m	ethods and develop the ability to u	se these methods to solve pract	ical engineering problems				
	Study outco	mes and reference to the	educational results for a	a field of study				
Knov	vledge:							
		ledge of probability theory - [K1A_						
2. 2. Student has a basic knowledge of descriptive and mathematical statistics, useful to solve practical engineering problems [K1A_W04]]								
Skills								
1. Student is able to interpret the information from a sample and to draw conclusions - [K1A_U05]								
Social competencies:								
1. Student is able to argue the necessity of continuous learning - [K1A_K01]								
		Assessment method	is 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		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 work	load	
			FOTO

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