STUDY MODULE DESCRIPTION FORM							
Name of Stati	the module/subject			Code 1011101321010342598			
Field of study			Profile of study (general academic, practical)	Year /Semester			
Logistics - Full-time studies - First-cycle studies				1/2			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle of study:			Form of study (full-time,part-time)	<u> </u>			
First-cycle studies			full-t	full-time			
No. of h	ours			No. of credits			
Lectur	Ciacco		Project/seminars:	- 3			
Status o	=	program (Basic, major, other)	(university-wide, from another fi	•			
Education	on areas and fields of sci	other	unive	ersity-wide ECTS distribution (number			
Ladouii	or arous and noise or sor	ones and are		and %)			
techn	ical sciences			3 100%			
	Technical scie	3 100%					
Responsible for subject / lecturer: -dr Elżbieta Wieczorek email: -elzbieta.wieczorek@put.poznan.pl tel+48(61)6652349 -Wydział Elektryczny Instytut Matematyk -ul. Piotrowo 3a 60-965 Poznań							
Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	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 competencies	Student recognizes the necessity in deepening his knowledge.					
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 Knowledge:							
Student has a basic knowledge of probability theory - [K1A_W04]]							
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]							
Socia	I competencies:						
Student is able to argue the necessity of continuous learning - [K1A_K01]							

Faculty of Engineering Management

-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.

Teaching methods:

Lecture - informative lecture.

Exercises - exercise method, demonstration method.

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. Lectures participation	30
2. Classes participation	15
3. Consultation	4
4. Test	2
5. Results discussion	2
6. Classes preparation	15
7. Test preparation	15

Student's workload

Source of workload	hours	ECTS
Source of Workload	Hours	LOTO
Total workload	83	3
Contact hours	53	2
Practical activities	15	1