

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Statistics		Code 1011101321011001935
Field of study Engineering Management - Full-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: 15 Laboratory: - Project/seminars: -		No. of credits 4
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: Elżbieta Wieczorek email: elzbieta.wieczorek@put.poznan.pl tel. +48(61)6652349 Wydział Elektryczny 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.
Assumptions and objectives 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:		
1. Student has a basic knowledge of probability theory. - [[K1A_W04]]		
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 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:		
Additional bibliography:		
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	4
Contact hours	53	2
Practical activities	15	2