		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject	-	^{ode} 011102211011100139			
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Corporate Management - Full-time studies -			(brak)	1/1		
Elective path/specialty Corporate Management			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	•		Form of study (full-time,part-time)	owngatory		
Second-cycle studies				full-time		
No. of h	iours		1	No. of credits		
Lectu	re: 15 Classes	3				
Status		s: 15 Laboratory: - program (Basic, major, other)	Project/seminars: • (university-wide, from another field	(b)		
l		(brak)	(b	rak)		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
dr h ema tel. Wyd ul. F	onsible for subje ab. Karol Andrzejczak ail: karol.andrzejczak @ +48(61) 665-2815 dział Elektryczny Piotrowo 3a, 60-965 P equisites in term	s ⊉put.poznan.pl,	d social competencies:			
1	Knowledge	Student knows basic knowledge of set theory, logic and mathematical analysis.				
2	Skills	Student is able to efficiently drave	w function graphs, calculate integ	als and derivatives		
3	Social competencies	Student is aware of the need to	deepen their knowledge			
Assu	mptions and obj	ectives of the course:				
to acquire basic probabilistic and statistical methods and develop the ability to use these methods to solve practical engineering problems.						
	Study outco	mes and reference to the	educational results for a	field of study		
Knov	vledge:					
	dent knows with in dep	th methods of collecting data and	extracting information hidden in e	engineering problems		
	lent has a basic know	ledge of probability and mathema	tical statistics, useful to solve prac	tical engineering problems		
Skills						
		et the information from a sample a	and to draw conclusions - [[K2A	U01]. [K2A U02]]		
 Student is able to interpret the information from a sample and to draw conclusions [[K2A_U01], [K2A_U02]] Can formulate their own opinions and obtain statistical data and the method of analysis [[K2A_U02]] 						
Social competencies:						
1. Student is able to argue the necessity of continuous learning [[K2A_K03]]						
2. Is aware of interdisciplinary knowledge and skills needed to solve complex engineering problems [[K2A_K06]]						
Assessment methods of study outcomes						

Forming rating:

a) auditorium exercises based on the assessment of the current progress of tasks implementation b) understanding of lectures based on answers to questions about the material discussed in previous lectures,

Summary rating:

a) exercises based on partial grades obtained for solving tasks on exercises or developing a cross-sectional set of issues,b) in the field of lectures: final test covering the scope of the material presented in the lectures

Course description

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

Teaching methods:

Lecture - informative lecture

Exercises - exercise method

Basic bibliography:

1. Jay L. Devore. Probability and Statistics for Engineering and the Sciences. Ninth or eighth Edition, 2012, 2015

- 2. Douglas C. Montgomery, G. C. Runger. Applied Statistics and probability for Engineers. Third or higher edition, 2003
- 3. Anthony Hayter. Probability and Statistics for Engineers and Scientists. Fourth edition

Additional bibliography:

- 1. Aczel A.D. Statystyka w zarządzaniu. Wyd. Naukowe PWN. 2000.
- 2. Andrzejczak K. Statystyka elementarna z wykorzystaniem systemu Statgraphics. Wyd. PP. 1997.
- 3. Bobrowski D., Mackowiak-Łybacka K. Wybrane metody wnioskowania statystycznego. Wyd. PP.
- 4. Górecki T. Podstawy statystyki z przykładami w R. Wyd. BTC, 2011.

Result of average student's workload

	Time (working hours)		
1. 1.	Lectures participation	15	
2. 4.	the study of literature and the development of cross-cuttin	20	
3. 2.	Classes participation	15	
4. 3.	Cunsultaion and e-consultation	6	
5. 5.	preparing to test knowledge or individual project presenta	4	
6. 6.	preparation for tutorials	15	
	Student's wo	rkload	
	Source of workload	hours	ECTS
Total workload 75			3
Contac	ot hours	34	1
Practic	al activities	15	1