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		STUDY MODULE DE	SCRIPTION FORM		
STUDY MODULE DESCRIPTION Name of the module/subject Statistics			SORII HON I ORIII	Code 1011102111010341935	
Field of	•	Full-time studies - Second	Profile of study (general academic, practica	Year /Semester	
Safety Engineering - Full-time studies - Second- Elective path/specialty Work Safety Management			Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle of	study:		Form of study (full-time,part-time)	
Second-cycle studies		full-time			
No. of h		<u>'</u>		No. of credits	
Lectur	Clacco		Project/seminars:	- 5	
Status o	-	program (Basic, major, other) (brak)	(university-wide, from another	(university-wide, from another field) (brak)	
Education	on areas and fields of sci	· /		ECTS distribution (number and %)	
techn	ical sciences			5 100%	
toom	Technical scie	ences		5 100%	
	roommour ook	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0 10070	
Responsible for subject / lecturer: dr Maria lwińska email: maria.iwinska@put.poznan.pl tel. +48(61)6652349 Faculty of Electrical Engineering ul. Piotrowo 3a, 60-965 Poznań					
Prere	quisites in term	s of knowledge, skills and	social competencies	:	
1	Knowledge	Student knows basic notions in ca	alculus.		
2	Skills	Student can operate a calculator.			
3	Social competencies	Student recognizes the necessity in deepening his knowledge.			
Assu	mptions and obj	ectives of the course:			
to acqu	ire basic descriptive	measures and develop the ability t	o use these measures to solv	ve application problems.	
	Study outco	mes and reference to the	educational results fo	r a field of study	
Know	/ledge:				
1. Stud	ent knows methods	of sampling [K2A_W02]			
2. Student knows measures of association between two variables [K2A_W02]					
3. Stud		nts of a time series and index numb	ers [K2A_W02]		
		et the information from a sample an	d to draw conclusions. IV	2Δ 1181	
	Il competencies:	<u> </u>	u to uraw conclusions [Na	د۸_٥٥]	
	•	he necessity of continuous learning	[K2A K1]		
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Assessment methods of study outcomes				
Forming score:				
on the basis of written tests.				
Summary score:				
the average points obtained by the written tests.				
Course description				

Faculty of Engineering Management

Graphical descriptions of data.

Measures of location . Measures of variability.

Crosstabulations and scatter diagrams.

Correlation and simple linear regression.

Time series, forecasting, and index numbers.

Basic bibliography:

- 1. Wasilewska E., Statystyka opisowa od podstaw. Podręcznik z zadaniami, Wydawnictwo SGGW, Warszawa, 2011.
- 2. Wysocki F., Lira J., Statystyka opisowa, Wydawnictwo Akademii Rolniczej w Poznaniu, Poznań, 2007.
- 3. lwińska M., Popowska B., Szymkowiak M., Statystyka opisowa, Wydawnictwo Politechniki Poznańskiej, Poznań, 2011.

Additional bibliography:

- 1. Sobczyk M., Statystyka opisowa, Wydawnictwo C. H. Beck, Warszawa, 2010.
- 2. Kowalski J. M., Podstawy statystyki opisowej dla ekonomistów, Wydawnictwo Wyższej Szkoły Bankowej, Poznań-Chorzów, 2006.

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Participation in exercises	30
3. Preparation for exercises	30
4. Preparation for tests	30
5. Preparation for lectures	15

Student's workload

Source of workload	hours	ECTS
Total workload	120	5
Contact hours	47	2
Practical activities	30	1