

Faculty of Computer Science and Management

SUBJECT CARD**Name in Polish** Statystyka biznesowa**Name in English** Business Statistics**Main field of study (if applicable):** Management**Specialization (if applicable):** Business Information systems**Level and form of studies:** 2nd level, full-time**Kind of subject:** obligatory**Subject code** MAZ1202**Group of courses** NO

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)	15		15		
Number of hours of total student workload (CNPS)	60		60		
Form of crediting	crediting with grade		crediting with grade		
For group of courses mark (X) final course					
Number of ECTS points	2		2		
including number of ECTS points for practical (P) classes			2		
including number of ECTS points for direct teacher-student contact (BK) classes	0,5		0,5		

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Mathematics

SUBJECT OBJECTIVES

C1 Presenting to the listeners elements of statistics and probability theory.

C2 Exercises are offered for practice in using statistical computer packages

SUBJECT EDUCATIONAL EFFECTS

relating to knowledge:

PEK_W01 He knows the methods of data analysis and methods of representation

PEK_W02 He knows and understands the theoretical foundations and advanced formal methods and tools for statistics.

relating to skills:

PEK_U01 He can choose the sources of information and use them to solve complex management problems and issues in the organization.

relating to social competences:

PEK_K01 – He recognizes the significance and limitations associated with the use of statistical data

PROGRAMME CONTENT

Form of classes - lecture		Number of hours
Lec 1	One random variables and their distributional functions	2
Lec 2	Multi-dimensional random variables and their distributional functions	2
Lec 3	Independence of multi random variables and their parameters. Central- limit theorem	2
Lec 4	Estimating the mean and variance for population. The structure of population and its characteristics	2
Lec 5	Estimating the mean and variance for grouped data. The distribution of the most important statistics	2
Lec 6	Confidence intervals	2
Lec 7	Parametric and non-parametric tests	3
	Total hours	15
Form of classes - class		Number of hours
Cl 1		
Cl 2		
Cl 3		
	Total hours	
Form of classes - laboratory		Number of hours
Lab 1	The average values, variability and distribution of elements in a sample	2
Lab 2	The average values, variability and distribution of elements in a sample – cont.	2
Lab 3	Calculating probabilities for given random variables	2
Lab 4	Calculating probabilities for given random variables – cont.	2
Lab 5	The central limit theorem	2
Lab 6	Confidence intervals	2
Lab 7	Parametric hypotheses	3
	Total hours	15
Form of classes - project		Number of hours
Proj 1		
Proj 2		
Proj 3		
	Total hours	
Form of classes - seminar		Number of hours
Sem 1		
Sem 2		
Sem 3		
	Total hours	
TEACHING TOOLS USED		
N1. Informative lecture		

N2. Computer packages
N3. Case study

EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT

Evaluation (F – forming (during semester), P – concluding (at semester end))	Educational effect number	Way of evaluating educational effect achievement
P	PEK_W01, PEK_W02	test
P=1		

PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] Aczel A. D., Sounderpandian J.: Complete Business Statistics, MacGraw-Hill, Irwin, 2009
[2] Mercik J.: BUSINESS STATISTICS. Six Lectures on Statistics, Wroclaw University of Technology Press, Wroclaw, 2011
[3]
[4]

SECONDARY LITERATURE:

- [1] Any text-book with “statistics” in its title
[2]
[3]

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

Barbara Gładysz, barbara.gladysz@pwr.wroc.pl

MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR SUBJECT
Business Statistics
AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY Management
AND SPECIALIZATION Business Information Systems

Subject educational effect	Correlation between subject educational effect and educational effects defined for main field of study and specialization (if applicable)**	Subject objectives***	Programme content***	Teaching tool number***
PEK_W01 (knowledge)	K2_ZARZ_W07, K2_ZARZ_W13	C1, C2	Lec1-Lec7 Lab1-Lab7	N1, N2, N3
PEK_W02	K2_ZARZ_W07, K2_ZARZ_W13	C1, C2	Lec1-Lec7 Lab1-Lab7	N1, N2, N3
PEK_U01 (skills)	K2_ZARZ_U03, K2_ZARZ_U08, K2_ZARZ_U11 K2_ZARZ_U12, K2_ZARZ_U14	C1, C2	Lec1-Lec7 Lab1-Lab7	N1, N2, N3
PEK_K01 (competences)	K2_ZARZ_K09	C1, C2	Lec1-Lec7 Lab1-Lab7	N1, N2, N3

** - enter symbols for main-field-of-study/specialization educational effects

*** - from table above