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