Faculty of Computer Science and Management

SUBJECT CARD

Name in Polish: Ekonometria
Name in English: Econometrics
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   MAZ1203
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
2. Business Statistics
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SUBJECT OBJECTIVES
C1 Knowledge and technology of econometric modeling and application to economy

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 of econometrics
relating to skills:
PEK_U01 He can choose the sources of information and use them to model complex
        management problems and issues in the organization via econometrics
relating to social competences:
PEK_K01 He recognizes the significance and limitations associated with the use of
        econometric models

PROGRAMME CONTENT

Form of classes - lecture	**Number of hours**

Lec 1	One-way and Multi-way analysis of variation	2
Lec 2	Gauss-Markov assumption	2
Lec 3	Least-square method and model's determination	2
Lec 4	Least-square method and model's determination –cont.	2
Lec 5	Estimation of explaining variables	2
Lec 6	Model parameters' verification and testing	2
Lec 7	Real-life examples of applications	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		
Lab 2		
Lab 3		
	Total hours	

Form of classes - project		Number of hours
Proj 1	Collection of data of chosen economical phenomena, building of econometric model and its verification and validation, forecasting of future values of the phenomena (forecasting)	15
	Total hours	15

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,	Project's report

	PEK_W02	
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] G. S. Maddala: Introduction to econometrics, John Wiley & Sons, Ltd.

SECONDARY LITERATURE:
[1] Any text-book with "econometrics" in its title

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

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MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR SUBJECT
Econometrics
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 S2_BIS_W01	C1	Lec1-Lec7 Proj 1	N1, N2, N3
PEK_W02	K2_ZARZ_W07, K2_ZARZ_W13 S2_BIS_W02	C1	Lec1-Lec7 Proj 1	N1, N2, N3
PEK_U01 (skills)	K2_ZARZ_U03, K2_ZARZ_U08, K2_ZARZ_U11, K2_ZARZ_U12, K2_ZARZ_U14 S2_BIS_U01 S2_BIS_U02	C1	Lec1-Lec7 Proj 1	N1, N2, N3
PEK_K01 (competences)	K2_ZARZ_K04, K2_ZARZ_K09	C1	Lec1-Lec7 Proj 1	N1, N2, N3

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