

**Field of study:****Finance and Accounting****Subject: Business Models**

Level of study: graduate studies

System of study: Full-time

Profile of studies: general academic

Subject: Business Models

Form of classes and the ECTS points

	Number of hours	ECTS points	Credit
lectures	15		exam
exercises	15		credit with mark
Total	30	4	

Aims of teaching

Within the course both theoretical knowledge concerning statistics and econometrics and practical knowledge of business modeling are provided. During the course many important, business problems will be analyzed and solved by using EXCEL. After the course students will have knowledge concerning statistics, econometrics and optimization and will be able to use EXCEL more efficiently.

Intended learning outcomes

KNOWLEDGE		
SYMBOL	DESCRIPTION	REFERENCE TO THE PROFILE OUTCOME
P_W1	Zna w zaawansowanym stopniu metody ilościowe oraz narzędzia informatyczne niezbędne w prowadzeniu badań i analiz z zakresu finansów i rachunkowości.	FiR_WG07_Mgr
SKILLS		
SYMBOL	DESCRIPTION	REFERENCE TO THE PROFILE OUTCOME
P_U1	Potrafi analizować, prognozować i modelować procesy oraz zjawiska społeczne i ekonomiczne, z wykorzystaniem zaawansowanych metod oraz narzędzi diagnostycznych i badawczych właściwych dla finansów i rachunkowości.	FiR_UW04_Mgr
SOCIAL COMPETENCES		
SYMBOL	DESCRIPTION	REFERENCE TO THE PROFILE OUTCOME
P_K1	Uznaje znaczenie wiedzy naukowej z zakresu finansów i rachunkowości w rozwiązywaniu problemów teoretycznych i praktycznych.	FiR_KK02_Mgr FiR_KO03_Mgr

Course content

NUMBER	DESCRIPTION	FORM OF CLASSES	NUMBER OF HOURS
1	- An Introduction: course description, semester organization - An Introduction to Statistics - Summarizing Data by Using Histograms - Summarizing Data by Using Descriptive Statistics - Using PivotTables to Describe Data - An Introduction to Econometrics - Estimating Straight Line Relationship - Modeling Exponential Growth - The Power Curve - Using Correlations to Summarize Relationships - Introduction to Multiple Regression - Analysis of Variance: One-Way ANOVA - An Introduction to Optimization - Sensitivity Analysis with Data Tables - Using the Scenario Manager for Sensitivity Analysis	lectures exercises	15 / 30 15 / 30

Conditions of completion

LECTURES

TYPE OF CREDIT	CREDIT INFLUENCE (IN %)
Exam (for the lecturers only)	100

EXERCISES

TYPE OF CREDIT	CREDIT INFLUENCE (IN %)
Exam (for the lecturers only)	100

Teaching methods

- exercises
- individual activity
- lectures
- multimedia presentations
- discussion in the class
- case studies

Reading (compulsory)

- Ott R.. An Introduction to Statistical Methods and Data Analysis 2008
- Spatz Ch.. Basic statistics: tales of distributions 2005

Reading (additional)

- Lack of literature

Odniesienie efektów przedmiotowych do efektów kierunkowych, treści kształcenia, metod weryfikacji

SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
KNOWLEDGE			
P_W1	FiR_WG07_Mgr	1	
SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
SKILLS			
P_U1	FiR_UW04_Mgr	1	
SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
SOCIAL COMPETENCES			
P_K1	FiR_KK02_Mgr FiR_KO03_Mgr	1	