Code	L	S	0	3	5	7	4	ECTS credit points: **4**

FACULTY OF MANAGEMENT

Title of course: **Forecasting in logistics**

Field of studies: **Logistics**	Level: sem. 3

Prerequisities: basic knowledge of statistical data analysis, enterprise and its environment

Methods of presentation: lecture, case studies, discussion, computing exercises, project, teamwork	Assessment: based on the results of the final written exam

Number of hours in semester	Lectures − 15	Exercises −	Specialistic Workshop − 30	Projects − 0	Sup. labs − 0	Seminars − 0

Objectives:
aim of the course is to acquaint students with the key principles and methods of forecasting, which can be used to predict the course of economic phenomena and processes. In addition, independent formulation skills and problem-solving.

Syllabus:
- Introduction to the theory of forecasting.
- The role of forecasts in economic activity.
- Methods of data collection and processing of economic information.
- Data series and verification of data forecasting.
- Types of forecasts.
- Classification and characteristics of the forecasting methods.
- The process of construction forecasts.
- Evaluation of the relevance and admissibility of the forecasts.
- Forecasting based on time series.
- Advanced forecasting models.

References:
1. Cieślak M. (red.), *Economic Forecasting. Methods and application*, Wydawnictwo Naukowe PWN, Warszawa, 2005.
2. Dittmann P. (i in.), *Forecasting in business management*, Wolters Kluwer, Kraków, 2009
3. Nazarko J. (red.), *Forecasting in business management. Part I-III.* Wydawnictwo Politechniki Białostockiej, Białystok 2004, 2005.

Optional textbooks and supporting materials:
1. Dittmann P., *Methods for sales forecasting in the enterprise*, Wydawnictwo Akademii Ekonomicznej we Wrocławiu, Wrocław, 2000.
2. Radzikowska B. (red), *Forecasting methods. Set of problems*, Wydawnictwo Akademii Ekonomicznej we Wrocławiu, Wrocław, 2000.
3. Sobczyk M., *Forecasting: theory, examples, problems*. Warszawa, Wydaw. PLACET, 2008.
4. Zeliaś A., Pawełek B., Wanat S., Economic forecasting. Theory. Examples. Problems, Wydawnictwo Naukowe PWN, Warszawa, 2003.

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