



## **Risk Management in Industry**

*Lecturer: prof. dr hab. inż. Tomasz Korol (WZiE)*

### **Course objective:**

The goal of the course is to learn various types of risk in the industry (from ecological & environmental through financial & managerial to information safety & market risk), methods of risk hedging, and the role of financial management in minimizing and controlling the probability of risk.

Students will be prepared to use the statistical models of risk assessment (e.g. discriminant analysis, decision trees, probit & logit models). They will also learn how to evaluate and manage the factors influencing financial situation of the enterprises. Furthermore, students will learn how to perform risk analysis in various sectors of industry (including such risks as ecological, environmental, financial & economical).

This course is directed toward students interested in understanding how the risk can be quantified, managed and prioritized at the industry enterprises.

### **Literature:**

1. Decker A., Galer D.: Enterprise Risk Management, CreateSpace Independent Publishing Platform, 2013.
2. Bluhm Ch., Overbeck L.: An introduction to credit risk modeling, Chapman & Hall/CRC Financial Mathematics Series, 2003.
3. Shimko D.: Credit Risk Models and Management, 2<sup>nd</sup> Edition, Risk Books, 2004.
4. Altman E.: Corporate financial distress, John Wiley & Sons, Nowy Jork 1993.
5. Eric A. Helfert: Financial Analysis Tools and Techniques - A Guide for Managers, McGraw-Hill Inc., 2001.
6. Madura Jeff.: International financial management, 8ed, Ohio, Thomson-South Western 2006.

### **Course topics:**

Topic 1. The Role of Risk Management. Types of Risk.

Topic 2. Business Activities in a Market Economy.

Topic 3. Methods of Risk Hedging.



Topic 4. The Role of Financial Management in Controlling the Risk

Topic 5. The Tools of Risk Management. Statistical Forecasting Models.

Topic 6. Measuring the Efficiency of the Enterprises. Asset and Liability Management.

Topic 7. The Symptoms and Causes of Going Concern.

Topic 8. Discussion of Multifactor Analysis – Map of Risk (ecological, environmental, financial, economical, information safety, market risk etc.).

<b>Terminy wykładów</b>			
<b>Data</b>	<b>Dzień tyg.</b>	<b>Godzina</b>	<b>Sala</b>
2015-10-22	Cz	16.15-21.00	WZIE 209
2015-10-24	So	9.15-14.00	WZIE 202
2015-10-25	N	9.15-14.00	WZIE 202