



Year	2023/2024	
Course title	Credit portfolio management	
Course number	239891 - 0240	3 ECTS points
Lecturer	Krysiak Andrzej Sławomir, PhD	

#### A. Course objective

The main objective of the course is to familiarise students with the definition and classification of credits, the risks involved and methods of its measurement and reduction. Another objectives involve showing methods of credit portfolio management and monitoring, regulations and practical aspects of the subject.

#### B. Abstract

Credit portfolio and its structure analysis. Types of collaterals. Effectiveness of credits and its factors. Credit risk and methods of its reduction. Credit scoring and its applications. Quantitative methods of credit risk measurement (including discriminatory analysis). The concept and applications of Value at Risk in credit risk measurement. Securitization of credit portfolio as a way of credit risk transfer. Types of credit derivatives and their applications in credit risk transfer. Credit portfolio analysis and monitoring. Practical aspects and regulations concerning credit portfolio management.

#### C. Learning outcomes

##### Knowledge

Student knows the structure of credit portfolio and methods of its optimization  
Student knows the methods of credit risk measurement and reduction  
Student knows the regulations and practical aspects of credit portfolio management  
Student knows the classification of credits and types of collaterals

##### Skills

Student has to be able to analyze the structure of credit portfolio  
Student has to be able to choose the right type of credit collateral  
Student has to be able to analyze the level of credit risk  
Student is able to use credit derivatives for credit risk reduction

##### Social competencies

Student has to be able to communicate with clients (loan applicants)  
Student has to be able to effectively operate in the business environment  
Student is able to communicate with the other experts in the field

#### D. Main issues

- 1 Definition and classification of credits
- 2 Credit portfolio and its structure
- 3 Effectiveness of credits and its factors
- 4 Credit risk and methods of its reduction
- 5 Credit scoring and its applications
- 6 Types of collaterals
- 7 Quantitative methods of credit risk measurement
- 8 Discriminatory analysis in credit risk measurement
- 9 The concept and applications of Value at Risk
- 10 Securitization of credit portfolio
- 11 Credit derivatives as a form of credit risk transfer
- 12 Credit rating and its applications
- 13 Credit portfolio analysis and monitoring
- 14 Regulations concerning credit portfolio management
- 15 Practical aspects of credit portfolio management

#### E. Basic literature

C. Smithson, Credit Portfolio Management, John Wiley & Sons 2003; A. Krysiak, A. Staniszevska, M.S. Wiatr, Zarządzanie portfelem kredytowym banku, wyd. II, OW SGH Warszawa 2015; A. Saunders, L. Allen, Credit Risk - Measurement in and out of the Financial Crisis, 3rd edition, Willey Finance 2010; R. Jagiełło, M.S. Wiatr, Ryzyko kredytowe, w: Współczesna Bankowość, praca zbiorowa pod redakcją M. Zaleskiej, Difin, Warszawa, 2007; M.S. Wiatr, Zarządzanie indywidualnym ryzykiem kredytowym. Elementy systemu, wyd. II, SGH, Warszawa, 2011.

#### F. Supplementary literature

G. Chaplin, Credit Derivatives: Trading, Investing and Risk Management, John Wiley & Sons ,2010; A.Kasapi, Kredytowe instrumenty pochodne, OE, Kraków, 2002; A. Langner, Creditmetrics a portfel kredytów zagrożonych, CedeWu, Warszawa, 2008; A. Matuszyk, Credit scoring, CedeWu, Warszawa, 2008; W. Żółtkowski, Zarządzanie ryzykiem w małym banku w kontekście zmieniających się regulacji nadzorczych, CeDeWu, Warszawa 2017;

#### G. Author's most important publications concerning the offered course

Andrzej KRYSIAK, Marek KEMPNY, Podstawowe klasy aktywów wchodzące w skład portfeli inwestycyjnych ,W: red. Piotr Czapiewski, Paweł Niedziółka, Zarządzanie portfelem inwestycyjnym,2016; Andrzej KRYSIAK, Zastosowanie metody VAR do pomiaru ryzyka kredytowego,W: red. . . , Zarządzanie portfelem kredytowym banku,2015; Andrzej KRYSIAK, Transfer ryzyka kredytowego przy zastosowaniu pochodnych instrumentów kredytowych,W: red. . . , Zarządzanie portfelem kredytowym banku,2015 Doświadczenie zawodowe lub doświadczenie dydaktyczne: Doświadczenie zawodowe lub doświadczenie dydaktyczne: Doświadczenie dydaktyczne w Szkole Głównej Handlowej od 2004 roku związane z prowadzeniem zajęć z wielu przedmiotów z zakresu finansów, bankowości, zarządzania ryzykiem bankowym oraz rynków finansowych.

#### H. Numbers of required prerequisites

not required

**I. Course size and mode**

	Full-time	Saturday-Sunday	Afternoon
<b>Total:</b>	30	14	-
Lecture	30	14	-

**J. Final mark (assessment)**

traditional examination (3 pytania)	50%
reports	50%

**K. Foreign language requirements**

English

**L. Selection criteria**

Order of applications

**M. Methods applied**

Lecture