

# **Diploma Seminars in ZMRF – General Information**

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# What Does the Diploma Thesis Assess?

## 1. Understanding of material covered during studies:

- a. Quantitative Methods – MIESI/Big Data programs
- b. Functioning of Financial Markets – Finance and Accounting program
- c. Economic Mechanisms – Economics program

## 2. Working with subject literature:

- a. Finding relevant studies
- b. Reading texts with comprehension

## 3. Ability to prepare an engaging report on obtained results:

- a. Logical structure of the text
- b. Linguistic accuracy
- c. Editing

## Ocena stopnia spełnienia wymagań merytorycznych pracy dyplomowej

### 1. Dobór tematu pracy i poprawność sformułowania jej celu

[Wartość 5] bardzo dobra

### 2. Oryginalność (nowatorstwo) tematu oraz wartość poznawcza/aplikacyjna pracy dyplomowej

[Wartość 4] dobra

### 3. Sposób rozwiązania postawionego problemu

[Wartość 4] dobra

### 4. Wykorzystanie wiedzy i umiejętności kierunkowych w zakresie związanym z pracą dyplomową

[Wartość 4,5] dobra plus

### 5. Wykorzystanie literatury przedmiotu

[Wartość 4] dobra

## Ocena stopnia spełnienia wymagań formalnych pracy dyplomowej

### 6. Umiejętność konstruowania spójnego, logicznego tekstu

[Wartość 5] bardzo dobra

### 7. Poprawność językowa

[Wartość 4,5] dobra plus

### 8. Redakcja pracy

[Wartość 4,5] dobra plus

# What Does the Diploma Thesis Not Assess?

1. The ability to use methods not covered during studies
2. The ability to conduct scientific research
  - a. A diploma thesis is not a scientific paper
  - b. It does not have to expand our understanding of the world

A thesis can be a scientific work and go beyond the study program, but this often leads to...

... submission after the deadline.

## **1. Priority is given to your ideas:**

- a. Interests
- b. Willingness to broaden horizons
- c. Work
- d. Other

## **2. You can also choose topics related to the Department's research activities:**

- a. Analysis of financial market dynamics
- b. Analysis of commodity market dynamics
- c. Forecasting
- d. Investment strategy analysis
- e. Macroeconomic simulations
- f. Other

- 1. Analysis of the price dynamics of a selected financial asset**  
Method: univariate time series models
- 2. Ex-post forecast quality for a selected asset**  
Method: univariate time series models
- 3. Co-movement analysis in financial markets**  
Method: VAR models, factor models, copulas
- 4. Yield curve dynamics analysis**  
Method: Nelson-Siegel model, Diebold-Li model
- 5. Backtesting VaR and ES**  
Method: GARCH, SV, EWMA models
- 6. Investment strategy backtesting**  
Method: factor models, CAPM, APT
- 7. Credit risk assessment**  
Method: logistic models, neural networks, decision trees
- 8. Modeling and forecasting inflation/unemployment/GDP**  
Method: VAR, SVAR, BVAR models
- 9. Structural analysis (e.g. housing market)**  
Method: comparative analysis, simulation models

## Standard Structure:

Introduction

Chapter 1: Description of the phenomenon

Chapter 2: Description of research method

Chapter 3: Empirical research

Summary

## Optimal Length:

Bachelor's Thesis: 25–35 pages

Master's Thesis: 30–45 pages

**Meeting 1:** Information about writing a thesis

**Meeting 2:** Presentation of the thesis plan

- Discussion of the thesis scope
- Table of contents
- What to bring: PDF file with the table of contents

**Meeting 3:** Presentation of empirical results

- Short presentation (max. 10 min.) on obtained results

**Next step:** Submission of the first version to the supervisor

## Thesis Evaluation stages

- A. Submission of the first draft
- B. Feedback (comments, suggestions)
- C. Revisions
- D. Submission of the second version
- E. Final evaluation

## Final Grade Composition:

- A. 60%: Content quality
- B. 40%: Formal aspects

**Starting from the 2025/2026 academic year, students are additionally required to prepare a presentation of their diploma thesis**

- ❑ Students must upload to the APD system the final version of the thesis approved by the supervisor, as well as the presentation file attached to the thesis (both in PDF format)
- ❑ Formal requirements for the thesis presentation:
  - it must follow SGH [visual identity guidelines](#),
  - file format: PDF, **maximum size 25 MB**,
  - the **first slide should include**: thesis title, author's name, program, and supervisor's name.
- ❑ **Presentation should include**: research objective, methodology, key conclusions, and a brief description of the sources.

# What does the diploma exam look like?

## ▪ Bachelor's studies

- Presentation → 5 min
- 2 questions: 1 from the supervisor (field of study), 1 from the reviewer (related to the thesis) → 20 minutes
- **3 partial grades**

## ▪ Master's studies

- Presentation → 10 min
- 3 questions: 2 prepared by the examination committee (field of study), 1 from the reviewer (related to the thesis) → 30 minutes
- **4 partial grades**

- 1. DO NOT LEAVE WRITING YOUR THESIS UNTIL THE LAST MINUTE**
2. Familiarize yourself with the subject literature
3. Conduct research/experiments
4. Discuss the obtained results with your supervisor
5. Create charts/tables and describe the results
6. Revisit the subject literature – analyze the structure of texts
7. Describe the empirical results
8. Write the theoretical part
9. Ask friends/family for feedback on the text
- 10. DO NOT LEAVE WRITING YOUR THESIS UNTIL THE LAST MINUTE**

## Literature:

1. Libraries: SGH, Biblioteka Narodowa, BUW
2. Web of Knowledge (brama.sgh.waw.pl)
3. Search pages:
  - a. IDEAS
  - b. <http://scholar.google.pl/>
  - c. SSRN

Read the right articles!!!

## Data:

1. Eikon Thomson-Reuters: B9 SGH
2. Quandl / Eurostat / OECD / FRED etc.

## How to cite:

- Harvard style, *author-year*, (example - [link](#))
- Other examples ([link](#))

## Programs for citations

- JabRef ([link](#)), along LaTeX