

**Course title: Financial markets**

Studies: Finance and Accounting

**Course description form (syllabus form)**

General data						
Cycle of studies	2024-2027					
Organizational unit	Faculty of Economic Sciences					
Studies	Finance and Accounting, first-cycle studies					
The profile of education	general academic					
Semester	03					
Mode of studies	full-time					
Type of course	Lecture	Practical session	Laboratory	Conversatorium	Seminar	Project
Number of hours	30		30			
Number of ECTS	5					
Examination	Exam					
Language	English					
Content author	Anna Szczepańska-Przekota					
Course objectives						
The aim of the course is to familiarize students with the possibilities of using tools for economic and financial analysis in the process of making investment decisions in financial markets. The course aims to present: issues related to the systematics of financial markets, discussion of financial market sectors, primary and secondary markets, the market of short-term and long-term debt securities, the concept of financial instrument valuation, indicators of the effectiveness of financial investments related to valuation, the capital market, methods of valuing bonds and stocks, the market of derivative instruments, and the function of derivative instruments.						
Prerequisites						
Fundamentals of economic and statistical data analysis knowledge.						
Student workload						
<ol style="list-style-type: none"><li>1. Class sessions (including assessment) - 60 hours</li><li>2. Reading literature for classes - 15 hours</li><li>3. Data analysis - 10 hours</li><li>4. Assessment and project preparation -15 hours</li><li>5. Exam preparation: 6 hours</li><li>6. Stock exchange platform operation: 16 hours</li><li>7. Consultations: 3 hours</li></ol> TOTAL: 125 hours (5 ECTS)						
Short description						
<ol style="list-style-type: none"><li>1. Taxonomy of financial markets.</li><li>2. Market of short-term debt securities. Fundamentals of financial instruments pricing.</li><li>3. Capital market. Valuation of bonds and stocks.</li><li>4. Technical analysis in the stock market.</li><li>5. Principles and types of fundamental analysis.</li><li>6. Income and risk analysis.</li><li>7. Modern portfolio theory.</li><li>8. Single-index model. Capital market models: CAPM and APT.</li><li>9. Elements of portfolio management.</li><li>10. Analysis of derivatives.</li></ol>						

11. Derivatives strategies.
<b>Learning outcomes</b>
<p><b>KNOWLEDGE:</b></p> <p>W01. Know and understand the market mechanism and market structures, as well as the premises for decision-making by key entities in the economy using financial market instruments (IB1_W02).</p> <p>W02. Possess advanced methods and tools, including techniques for acquiring and processing data in the field of finance, allowing the description of structures and processes occurring within them and between them (IB1_W04)</p> <p><b>SKILLS:</b></p> <p>U01. Participants are able to identify dilemmas associated with the professions of accountant, financial analyst, tax advisor, and financial manager (IB1_U01)</p> <p>U02. Participants are able to analyze and forecast economic, political, and legal processes and phenomena, utilizing methods and tools applied in finance (IB1_U02)</p> <p><b>COMPETENCIES:</b></p> <p>K01. Participants are prepared for critical evaluation of the knowledge they possess and the information received in the field of financial markets in solving cognitive and practical problems (IB_K01)</p> <p>K02. Participants are prepared for the preparation, implementation, and taking responsibility for economic projects, considering financial, legal, and economic aspects (IB1_K02)</p>
<b>Form of verification</b>
<p>Written exam (test).</p> <p>Credit project: performing a quantitative assessment and modelling and forecasting of a selected time series of financial data.</p>
<b>Detailed data</b>
<b>Type of course: Lecture/ Laboratory</b>
<b>Bibliography</b>
<p><b>Bibliography:</b></p> <ol style="list-style-type: none"> <li>1. P. Kliber, <i>Financial engineering: Methods and cases</i>, Uniwersytet Ekonomiczny w Poznaniu, Poznań 2019.</li> <li>2. A. Mroczek, K. Stabryła-Chudzio, <i>European Union Financial Instruments. Selected Issues</i>, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2020.</li> </ol> <p><b>Supplementary:</b></p> <ol style="list-style-type: none"> <li>1. D. Blake, <i>Financial market analysis</i>, John Wiley, 2000.</li> </ol> <p>A. Szczepańska-Przekota, <i>Transmission of volatility from the capital market to commodity futures markets</i>, w: „Pieniądz, instrumenty i instytucje finansowe – problemy, diagnoza, perspektywy” redakcja naukowa S. Franek, A. Adamczyk, Szczecin 2020, str. 103-118;</p>
<b>Range of content</b>
<ol style="list-style-type: none"> <li>1. Taxonomy of financial markets.</li> <li>2. Market of short-term debt securities. Fundamentals of financial instruments pricing.</li> <li>3. Capital market. Valuation of bonds and stocks.</li> <li>4. Technical analysis in the stock market.</li> <li>5. Principles and types of fundamental analysis.</li> <li>6. Income and risk analysis.</li> <li>7. Modern portfolio theory.</li> <li>8. Single-index model. Capital market models: CAPM and APT.</li> <li>9. Elements of portfolio management.</li> </ol>

10. Analysis of derivatives. 11. Derivatives strategies. Investor preferences depending on risk.
<b>Didactic methods</b>
1. Lecture using a PowerPoint multimedia presentation 2. Instructions for project implementation 3. Work sheets - individual and team work using computer software: MS Excel, Statistica 4. Internet databases of financial and statistical data, <a href="http://www.unstats.un.org">www.unstats.un.org</a> ; <a href="http://www.stooq.pl">www.stooq.pl</a> ; <a href="http://www.oecd.org">www.oecd.org</a> ; 5. Creating reports using Statistica and MS Excel 6. Seminars with investment practices of Dom Maklerski XTB S.A. 7. Trading on x5Station virtual stock platform; 8. Discussion
<b>Assessment methods and assessment criteria</b>
<p><b>Exam:</b>  Written exam (20 multiple choice questions).  Assessment criteria: 50% - 3; 71% - 4; 91% - 5</p> <p><b>Laboratory:</b>  Project with no technical or factual errors, correctly interpreted results (above 90% of points grade 5)  Project with minor technical or content-related errors, correctly interpreted results (from 80-90% of the points evaluation db+)  Project containing technical or content-related errors, the results partially interpreted correctly (from 70-80% of the points evaluation db)  Project containing technical and content-related errors, results interpreted correctly (60-80% of the points grade dst+)  Project containing technical and content-related errors, results interpreted incorrectly (from 50-60% of the points evaluation dst)  Project with unacceptable technical and content-related errors, wrongly interpreted results (below 50% of the points, mark ndst)</p>