Subject card

Subject name and code	TECHNICAL ANALYSIS, PG_00071134		
Field of study	Economic Analytics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	first-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Finance -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Krystian Zawadzki	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	9.0	9.0	9.0	0.0	0.0	27
E-learning hours included: 0.0						

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	27	3.0	70.0	100

Subject objectives	preparing students to apply technical analysis tools in the financial market, based on knowledge of reliable data sources and analytical methods in the context of the contemporary economy, as well as fostering lifelong learning and a critical approach to information in the context of making investment decisions

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] is ready to fulfill professional roles responsibly, taking legal, ethical, and cultural aspects into account in decision-making processes.	is ready to use technical analysis responsibly in investment decision-making, being aware of its consequences as well as legal and ethical conditions.	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice
[K6_W07] knows and understands advanced methods for analyzing economic, financial, and social phenomena, taking into account legal and ethical issues.	knows and understands technical analysis methods used to evaluate financial phenomena, in particular the interpretation of trends, price patterns, and market indicators, including their limitations as well as legal.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
[K6_U06] acquires specialized knowledge in the field of economic analytics, demonstrating the ability to effectively plan individual work and pursue lifelong learning.	is able to acquire new knowledge in the field of technical analysis and apply methods of trend identification and indicators to assess market conditions supporting investment decision-making, while planning their own strategy for further learning and continuous competence development.	[SU2] Assessment of ability to analyse information

Subject contents	Course content – lecture 1. Dow Theory in financial markets 2. Analysis of trends, trend channels, and support and resistance levels 3. Linear price patterns indicating trend continuation 4. Linear price patterns indicating trend reversal 5. Japanese techniques in technical analysis 6. Candlestick patterns indicating trend continuation 7. Candlestick patterns indicating trend reversal 8. Elliott Wave Theory basic principles of impulse and corrective waves 9. Advanced forms of impulses and corrections in 15 and ABC sequences 10. Fibonacci numbers in internal and external retracements 11. Bullish and bearish ABCD pattern 12. Oscillators: MACD, RSI, %R 13. Moving averages: exponential, simple, and weighted 14. Indicators used in technical analysis
	Course content – exercises 1. Dow Theory in financial markets 2. Analysis of trends, trend channels, and support and resistance levels 3. Linear price patterns indicating trend continuation 4. Linear price patterns indicating trend reversal 5. Japanese techniques in technical analysis 6. Candlestick patterns indicating trend continuation 7. Candlestick patterns indicating trend reversal 8. Elliott Wave Theory basic principles of impulse and corrective waves 9. Advanced forms of impulses and corrections in 15 and ABC sequences 10. Fibonacci numbers in internal and external retracements 11. Bullish and bearish ABCD pattern 12. Oscillators: MACD, RSI, %R 13. Moving averages: exponential, simple, and weighted 14. Indicators used in technical analysis
	Course content – laboratory 1. Dow Theory in financial markets 2. Analysis of trends, trend channels, and support and resistance levels 3. Linear price patterns indicating trend continuation 4. Linear price patterns indicating trend reversal 5. Japanese techniques in technical analysis 6. Candlestick patterns indicating trend continuation 7. Candlestick patterns indicating trend reversal 8. Elliott Wave Theory basic principles of impulse and corrective waves 9. Advanced forms of impulses and corrections in 15 and ABC sequences 10. Fibonacci numbers in internal and external retracements 11. Bullish and bearish ABCD pattern 12. Oscillators: MACD, RSI, %R 13. Moving averages: exponential, simple, and weighted 14. Indicators used in technical analysis
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Assessment of the ability to apply technical analysis techniques in investment decision-making (decision simulation).	60.0%	50.0%
Assessment of the ability to identify trends and patterns on historical charts (historical chart analysis).	60.0%	50.0%

Recommended reading	Basic literature	1. Murphy, J. (2017). Analiza Techniczna rynków finansowych. Warszawa: Maklerska pl. 2. Nison, S. (2018). Świece japońskie i analiza wykresów cenowych: Maklerska pl. 3. Kochan, K. (2020). Analiza techniczna w praktyce. Warszawa: OnePress.
	Supplementary literature	StockCharts.com - ChartSchool (internet sources)
	eResources addresses	
Example issues/ example questions/ tasks being completed	• Indicate the scope of the price lifting of KGHM Polska Miedź based on Fibonacci techniques. • Name single candlestick patterns that announce the continuation of the trend. • Discuss the eight-wave sequence based on the assumptions of the Elliott wave theory.	
Practical activites within the subject	Not applicable	

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