GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	TECHNICAL ANALYSIS, PG_00058538
Field of study	Economic Analytics

Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Full-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
Name and surname of lecturer (lecturers)	Subject supervisor — dr hab. inż. Krystian Zawadzki Teachers

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	0.0	0.0	0.0	30

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	30	10.0	60.0	100

Subject objectives	Describes techniques that allow to make investment decisions

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W03] Knows reliable sources of information and uses advanced knowledge to explain fundamental dilemmas of the modern economy.	identifies reliable sources of obtaining information required in technical analysis	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
[K6_U06] Acquires new specialized knowledge related to the field of economic analytics by planning a personal lifelong learning strategy	acquires new knowledge necessary to analyze price fluctuations and the volume of trading in securities	[SU2] Assessment of ability to analyse information

Subject contents

Dow theory of financial markets.
Analysis of trends, trend channels, support and resistance lines.
Linear price patterns announcing the continuation of the trend.
Linear price patterns announcing a trend reversal.
Japanese techniques in technical analysis.
Candlestick patterns announcing the continuation of the trend.
Candlestick patterns announcing a trend reversal.
Elliott waves - basic principles of creating impulse waves and correction.
Advanced forms of impulses and corrections in sequences 1-5 and ABC.
Fibonacci numbers in internal and external retracements.
ABCD up and down patterns.
Oscillators: MACD, RSI,% R.
Exponential, simple and weighted moving averages.
Indicators used in technical analysis.

Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
solving tasks during classes	0.0%	30.0%
final assessment	60.0%	70.0%

Recommended reading	Basic literature	Murphy, J. (2017). Analiza Techniczna rynków finansowych. Warszawa: Maklerska pl. Nison, S. (2018). Świece japońskie i analiza wykresów cenowych: Maklerska pl. Kochan, K. (2020). Analiza techniczna w praktyce. Warszawa: OnePress.
	Supplementary literature	StockCharts.com - ChartSchool (internet sources)
	eResources addresses	Adresy na platformie eNauczanie:
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.	
Work placement	Not applicable	

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