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Course Name

Statistical analysis of Financial Data Development "SPSS"

Sector Name

Finance, Accounting and Banking

Document Type

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Statistical analysis of Financial Data Development "SPSS"

Course Introduction

Statistical analysis is a powerful tool for interpreting financial data and making informed business decisions. Using SPSS software, finance professionals can process complex datasets, identify trends, detect anomalies, and generate actionable insights. This course equips participants with the skills to apply statistical techniques to financial data, enhancing the accuracy and effectiveness of decision-making.

Participants will learn to use SPSS for data preparation, descriptive and inferential statistics, modeling, forecasting, and visualization. Emphasis is placed on hands-on exercises, real-world financial datasets, and practical applications to ensure participants can analyze financial data efficiently and communicate findings effectively to stakeholders.

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Target Audience

- ✓ Financial Analysts and Investment Analysts
- ✓ Economists and Economic Researchers
- ✓ Risk Management and Credit Analysis Professionals

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Learning Objectives

- ✓ Understand key statistical concepts and their relevance to financial data analysis.
- ✓ Prepare, clean, and manage financial datasets using SPSS software.
- ✓ Apply descriptive and inferential statistical techniques to interpret data.
- ✓ Develop predictive models and perform scenario analysis for decision-making.
- ✓ Communicate insights and recommendations clearly using visualizations and reports.

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Course Outline

✓ DAY 01

Introduction to Financial Data Analysis and SPSS

- ✓ Overview of financial data types and sources
- ✓ Introduction to SPSS interface, functions, and navigation
- ✓ Data entry, cleaning, and preparation for analysis
- ✓ Understanding variables, coding, and data structures
- ✓ Ethical considerations in financial data handling

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Course Outline

✓ Day 02

Descriptive Statistics for Financial Analysis

- ✓ Measures of central tendency: mean, median, and mode
- ✓ Measures of dispersion: variance, standard deviation, and range
- ✓ Frequency distributions and cross-tabulations
- ✓ Visualizing data with charts, histograms, and graphs in SPSS
- ✓ Identifying trends, outliers, and anomalies in financial datasets

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Course Outline

✓ Day 03

Inferential Statistics and Hypothesis Testing

- ✓ Introduction to probability, sampling, and distributions
- ✓ Correlation analysis to determine relationships between financial variables
- ✓ Regression analysis for predicting outcomes
- ✓ T-tests, ANOVA, and chi-square tests for financial comparisons
- ✓ Interpreting SPSS output for actionable decision-making

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Course Outline

✓ Day 04

Advanced Modeling and Forecasting

- ✓ Time series analysis for financial trend forecasting
- ✓ Scenario and sensitivity analysis for risk assessment
- ✓ Predictive modeling using regression and correlation techniques
- ✓ Evaluating model accuracy and assumptions
- ✓ Using SPSS to simulate financial outcomes and strategic scenarios

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Course Outline

✓ Day 05

Reporting, Visualization, and Decision Support

- ✓ Preparing clear and actionable financial analysis reports
- ✓ Using SPSS outputs to create dashboards and visual summaries
- ✓ Communicating statistical insights to management and stakeholders
- ✓ Integrating statistical findings into financial decision-making processes
- ✓ Best practices for continuous improvement and monitoring financial performance

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 12, 2026	April 16, 2026	5 days	4250.00 \$	KSA , Riyadh
Oct. 4, 2026	Oct. 8, 2026	5 days	2150.00 \$	KSA , Dammam
May 17, 2026	May 21, 2026	5 days	4250.00 \$	Egypt , Cairo
April 5, 2027	April 9, 2027	5 days	4950.00 \$	Greece , Athens

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