

COURSE TITLE	FINANCIAL TECHNICAL ANALYSIS
COURSE CODE	05FN0503
COURSE CREDITS	4

Objective:

- 1 Apply the foundational concepts of technical analysis to interpret price movements and market behavior in financial markets.
- 2 To equip students with the ability to interpret and utilize charting tools and indicators.
- 3 To analyze market trends and patterns for informed investment decisions.
- 4 To develop skills for evaluating financial instruments using technical tools.

Course Outcomes: After completion of this course, student will be able to:

- 1 Apply the core principles and underlying assumptions of technical analysis to interpret market trends, identify price patterns, and support trading or investment decisions.
- 2 Apply charting techniques to study market behavior and predict price movements.
- 3 Utilize various technical indicators and oscillators for financial decision-making.
- 4 Analyze different patterns and trends using candlestick and chart patterns.
- 5 Evaluate the effectiveness of technical analysis in practical financial scenarios.

Pre-requisite of course: Basic knowledge of financial management and capital markets. Familiarity with statistical tools and MS Excel.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	50	30	20	0	0

Contents : Unit	Topics	Contact Hours
1	Introduction to Technical Analysis Difference between technical and fundamental analysis, Assumptions of technical analysis, Types of charts: Line, Bar, Candlestick, Price patterns: Continuation and reversal patterns.	10
2	Technical Indicators and Oscillators Moving Averages: SMA, EMA, Momentum Indicators: RSI, MACD, Stochastic, Oscillator, Volume indicators: OBV, Chaikin Money Flow.	10
3	Candlestick Patterns and Charting Techniques Single candlestick patterns: Doji, Hammer, Inverted Hammer, Double/triple candlestick patterns: Engulfing, Morning Star, Evening Star, Trend analysis using support and resistance.	10

Contents : Unit	Topics	Contact Hours
4	Advanced Tools in Technical Analysis Fibonacci Retracement & Extension, Bollinger Bands, Ichimoku Cloud, Elliot Wave Theory and Dow Theory basics.	10
5	Application & Case Studies Using technical analysis in equity and forex markets, Real-time analysis using TradingView and NSE tools, Case studies of historical market moves and investor behavior, Risk management and strategy formulation.	20
Total Hours		60

Textbook :

- 1 Technical Analysis of the Financial Markets, John J. Murphy, New York Institute of Finance, 2020
- 2 Japanese Candlestick Charting Techniques, Steve Nison, New York Institute of Finance, 2001

References:

- 1 A Beginner's Guide to Technical Analysis, A Beginner's Guide to Technical Analysis, Matthew R. Kratter, Trader University, 2019
- 2 Encyclopedia of Chart Patterns, Encyclopedia of Chart Patterns, Thomas N. Bulkowski, John Wiley & Sons, 2021

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
10.00	15.00	25.00	25.00	25.00	0.00

Instructional Method:

- 1 Board Work, PPT

Supplementary Resources:

- 1 <https://www.screener.in/>
- 2 <https://stockedge.com/>
- 3 <https://www.strike.money/>