Empirical
F&M Academy
Learn, Grow, Excel

Mastering Algorithmic Trading

Introduction

Step into the future of trading with our hands-on Algorithmic Trading Course, designed for traders who want to automate and scale their strategies — no coding required! This course takes you from the basics of algo trading and SEBI guidelines to designing, backtesting, and deploying real strategies using platforms like AlgoTest, TradingView, and Tradetron. You'll also explore live execution with broker APIs and manage risk like a pro using tested portfolio techniques. Build, test, and automate your trades confidently with practical exercises in every module.

Course Content

Module 1: Introduction to Algorithmic Trading

- What is Algo Trading?
- Manual vs Automated vs Semi-Auto Trading
- Algo Trading Landscape in India
- SEBI Guidelines & Regulations

(Practical: Create your own “algo trading flowchart” for a simple strategy)

Module 2: Strategy Design Without Coding

- Components of a Strategy:
  Entry, Exit, Stop Loss, Target, Position Sizing
- Candle Patterns & Indicator-Based Setups
- Strategy Examples:
- Breakout Strategy
- EMA Crossover
- RSI + Bollinger Band Reversal

(Practical: Design a strategy using indicator conditions on paper)

Module 3: AlgoTest – Drag & Drop Strategy Builder

- Account Setup on AlgoTest
- Building a Strategy (without coding)
- Backtesting with historical NSE data
- Interpreting Reports: PnL, Max Drawdown, CAGR, Win Rate

(Assignment: Build & backtest 2 intraday strategies on AlgoTest)

Module 4: TradingView Strategies (Visual + Pine Script Basics)

- Using TradingView for Signals
- Writing Simple Logic in Pine Script (Just Copy-Paste Level)
- Alerts Setup for Webhooks
- Integration with Brokers & Execution Tools

(Practical: Create a basic MA crossover alert & test webhook)

Module 5: Tradetron Platform

- Introduction to Tradetron
- Strategy Builder Logic: Set, Conditions, Positions
- Deploying Live Strategies with Capital Allocation
- Handling Live Trade Errors

(Assignment: Create and deploy a simple intraday positional strategy)

Module 6: Broker APIs & Execution Management

- Connecting Strategies to Zerodha, AliceBlue, etc.
- Live Execution vs Paper Trading
- SL/Target/Trailing SL Automation
- Daily Checks Before Market

(Bonus: VPS Setup Guide (optional)

Module 7: Portfolio & Risk Management

- Strategy Diversification: Types of Strategies
- Position Sizing Rules (Fixed % / Volatility Based)
- Risk Metrics: Max DD, Sharpe Ratio
- Excel Sheet for Live Monitoring

(Assignment: Fill a portfolio tracker with your top 3 strategies)

Faculty

Highly Qualified faculty (Including CA, CFA, FRM, MBA, and Ph.D. holders) having experience working in the Corporate World. So that they can give a better understanding of financial concepts with real-world implications. Along with giving real-life examples the faculty will also support you in solving the real-life scenario and help the learners innovate in business practice.

The Empirical F & M Academy faculty team includes outstanding educators and researchers from both the academic and business sectors, contributing towards the overall professional and personal growth of the students. Interactions with prominent leaders/senior executives from the industry, allowing you to benefit from the experience gained in leading positions around the globe.

Empirical F & M Academy Faculty are highly qualified and experienced faculty and are the greatest asset of the Organisation.

Registration Details:

Course Duration: 12 Sessions
8 Session Online & 4 Session Live Market

Course Fees: INR 23,600/- (Inclusive of 18% GST)

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