



PerixAnalytic

ADVANCED PROGRAMS IN

**FINANCE • ECONOMICS • DATA • AI •
DECISION-MAKING**

Where Questions Cross Disciplines:

PerixAnalytic explores questions that cross disciplinary boundaries. The objective is not simply to acquire another technique. It is to understand why the technique exists, what it can reveal, where its assumptions begin to matter, and where its explanatory power ends.



Course 04

THE DISTRIBUTION OF TOMORROW

Monte Carlo Simulation, Stochastic Modeling & Financial Uncertainty

A forecast produces a number. A simulation produces a landscape. Many financial and business decisions depend on variables whose future values cannot be known with certainty. Probability allows uncertainty to be represented. Simulation allows its consequences to be explored.

Perspectives

- Probability
- Quantitative Finance
- Computational Modeling
- Stochastic Processes
- Risk Analysis
- Scenario Exploration

Simulation Laboratory

Participants transform uncertain assumptions into probability distributions and examine how they propagate through a model.

Applications include:

- Valuation
- Investment projects
- Business planning
- Portfolio risk
- Revenue uncertainty
- Capital requirements
- Budgeting

Input Distributions → Simulation → Outcome Distribution → Risk → Decision



Central Question

What does the future look like when we stop representing it with a single number?



Format: Simulation Course

Level: Intermediate / Advanced

Audience: Finance professionals, analysts, investors, risk professionals, entrepreneurs