About NISM

The Hon'ble Union Finance Minister in his budget Speech in February 2005 announced that the Securities and Exchange Board of India (SEBI) would establish an institute to undertake securities market education and research. In pursuance of this mandate, SEBI has established the National Institute of Securities Markets (NISM) in Mumbai. NISM is established as a public trust under the Bombay Public Trusts Act, 1950. It is an autonomous body governed by its Board of Governors. An international Advisory Council provides strategic guidance to NISM.

NISM has launched an effort to deliver financial and securities education at various levels and across various segments in India and abroad. NISM seeks to add to market quality through educational and research initiatives.

A market for securities education and research is gradually emerging in India and abroad. These initiatives have been spurred partly because of the buoyancy in the securities industry and partly due to the regulatory efforts to mandate minimum competency levels for securities industry professionals. NISM intends to play a catalytic role in addressing these needs .

Computational Finance Workshop

March 26-27, 2010

National Institute of Securities Markets

(Established by Securities and Exchange Board of India)

National Institute of Securities Markets

UTI House, Ground Floor, Plot No. 82,
Sector-17, Vashi, Navi Mumbai-400705.

Web: **www.nism.ac.in**

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Tel: 022-27883001

Computational Finance Workshop

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What is computational finance?

Computational finance is a wide umbrella of disciplines — mathematical science, and the use of computer simulations to explore the potential risks as well as the probable outcomes of trading, hedging and investment decisions. Applications of Computational finance are used in the fields of investment banking, financial risk management, options pricing, strategic planning and so on.

The workshop would be articulating important concepts such as Monte-Carlo simulations, portfolio selection & optimization and high frequency data analysis. The workshop also aims at providing hands on practice on programming tools.

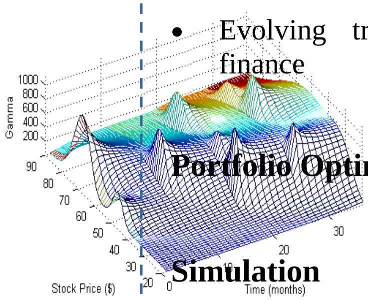
Topics to be covered

This workshop is a two-day intensive workshop consisting of eight sessions (90 minutes each) with take home assignments.

Introduction with illustrations in R

Applied Econometrics

- High frequency data
- Volatility Modeling (GARCH family techniques)
- Liquidity estimation
- Evolving trends in computational finance



Portfolio Optimization

Simulation

- Intuitions
- Monte Carlo Methods

Applications of Simulation

- Option Pricing
- VaR
- Back– testing
- Assignments & further readings

Advance Modules in R

- Rmetrics
- Quantmod

Who should attend?

- Industry Experts professionals from Treasury, Banking, Trading, Quantitative analysts, Fund Managers etc.
- Researchers willing to learn practical applications in finance

Prerequisites

- Flair for Programming
- Basic Knowledge of Regression Analysis and Basic Mathematics

Accommodation

All outstation participants will be housed at UTI Niwas, Vashi on twin sharing basis.

Fees

Academicians– Rs 2500
Non– Academicians– Rs 5000
(Includes Courseware, Lodging & Boarding)

Date and Venue

Date: 26 and 27 March, 2010

Venue: National Institute of Securities Markets, Vashi

Contact person

Shobana Balasubramaniam

Email id:-shobana.b@nism.ac.in

Phone: 022 27883047

How to register?

A mail may be sent to the contact person mentioned above. Confirmation of your registration will be sent by NISM.

Last Date for Registration is March 15, 2010

Faculty

Dr. K Kiran Kumar

Dr. Kiran Kumar holds a PhD in Finance from Indian Institute of Science, Bangalore after completing M A (Economics) from Hyderabad Central University. Dr. Kiran's research focuses on market microstructure, derivatives, applied financial econometrics. He received five best paper awards in national and international conferences and has ten research papers. He delivered lectures in several research workshops including SAS Workshop for Researchers at Indian School of Business; Structural VAR Models at RBI Staff College; Econometrics Workshop of Indian Econometric Society.

Mr. Suneel Sarswat

Mr. Sarswat is an MSc in Statistics and Informatics from the Department of Mathematics at IIT Bombay. He has worked with Bank of America on Financial Analytics with a keen interest on Computational Finance. programming .He taught several computational course at NMIMS, NISM and other reputed institutions.