

**PLACEMENT
2022-23**

New Age
**Securities Markets
Professionals**

**Post Graduate
Certificate in Management**

 **Data
Science**
in Financial Markets

14-month Regular Weekend Programme

NISM राष्ट्रीय प्रतिभूति बाजार संस्थान
National Institute of Securities Markets
(An Educational Initiative of SEBI)


PGCM (DSFM)
AICTE Approved



Inauguration of NISM's
State-of-the-art Campus
at Patalganga by

Shri Narendra Modi,

the hon'ble Prime Minister of India.

on 24th December 2016.





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Message from the Director

Dear Recruiters,

In order to strengthen the HR capabilities of your organization periodically, you must be looking forward to selecting people with core competencies combined with exceptional qualities.

NISM is happy to offer the 2nd batch of Post Graduate Certification in Management specialized in Data Science in Financial Markets PGCM (DSFM); a group of 14 skilled professionals in the area of Financial /Securities Markets. The USP of studying in NISM is the balanced emphasis we give to both theory and actual application on the ground. While the expert in-house faculty predominantly deals with the former part, senior functionaries from the Market Infrastructure Institutions and other operational entities teach practical applications. As such the students are well-trained to function in various capacities immediately on appointment. They are a mix of fresh people as well as people having prior experience; all of them eagerly looking forward to starting a right career and contributing to the growth of the organization they would join.

I recommend you to consider recruiting them to help deal with the challenges of your Organisation.

Dr. CKG Nair
Director, NISM



Message from the Program Director

The PGCM (DSFM) is designed to provide data-driven solutions required to take a step beyond numbers, algorithms, and statistics. It is a perfect balance of conceptual understanding and exposure to best practices and policies, through the use of technology and application-centric learning approaches.

The institute's team of academic and industry experts imparts knowledge based on extensive research, practical experience, and high-level interactions with policymakers and industry representatives. PGCM (DSFM) students receive a comprehensive curriculum, including a broad perspective on securities markets, technology, and finance, as part of the program.

PGCM (DSFM) 2022-24 is a multidisciplinary program designed to prepare a team of professionals to work as a team in the Technology and Finance industry. We have a diverse range of students in this batch, from engineering to management to economics to commerce, and they are all studying a variety of fields. As a result of the rigorous process of selecting the batch, industry-vetted program structure, case-based teaching pedagogy, simulation exercises. We have created an extremely talented pool of securities markets professionals who are capable of taking up a variety of positions. I am confident that our students are prepared to take on leadership roles in a variety of businesses and contribute to the growth of the securities market, and I look forward to a mutually beneficial and long-term partnership with your prestigious organisation. I would like to take this occasion to express our gratitude to our previous recruits. I would also like to extend a warm welcome to the new recruiters. I strongly endorse the potential of our students and confident in their ability that adds tremendous value to your organisations.

Dr. Kirti Arekar

Professor & Program Director - PGCM (DSFM)

Board of Governors

Chairperson

Ms. Madhabi Puri Buch
Chairperson, SEBI

Members

Dr. CKG Nair
Director, NISM

Mr. Ashwani Bhatia
Whole Time Member, SEBI

Mr. Ananth Narayan
Whole Time Member, SEBI

Mr. Girraj Prasad Garg
Executive Director, SEBI

Mr. Ajit Balakrishnan
Chairman and CEO of Rediff.com and
Former Chairman of the Board of
Governors of IIM Calcutta

Mr. A Balasubramanian
Managing Director and CEO,
Aditya Birla Sun life AMC Ltd.

Ms. Ashu Suyash
Former Managing Director and CEO, CRISIL

Mr. Ishaat Hussain
Former Director, Tata Sons and Tata Steels

Mr. Uday Chitale
Independent Director, ICICI Bank Ltd.

Prof. H. Krishnamurthy
Chief Research Scientist (Retired), IISc

Secretary to the Board

Mr. Sunil Jayawant Kadam
Registrar, NISM

About NISM

The National Institute of Securities Markets (NISM) is a public trust established in 2006 by the Securities and Exchange Board of India (SEBI). From spreading awareness of securities markets among common investors to skill development of market professionals, the institute carries out a wide range of capacity building activities at various levels. NISM's six schools of excellence and the National Center for Financial Education work in synergy towards professionalizing securities markets.

The School for Securities Education (SSE) creates new age securities markets professionals and equips them with expertise to meet the enhanced expectations through its uniquely positioned academic programmes.

The Six Schools of Excellence:

- School for Securities Education (SSE)
- School for Certification of Intermediaries (SCI)
- School for Regulatory Studies and Supervision (SRSS)
- School for Investor Education and Financial Literacy (SIEFL)
- School for Corporate Governance (SCG)
- School for Securities Information and Research (SSIR)

Vision: To lead, catalyze and deliver educational initiatives to professionalize the securities markets.

Mission: To engage in capacity building among stakeholders in the securities markets through financial literacy, professional education, certification, enhancing governance standards and fostering policy research.



About the Program

Certificate Programme

in Data Science

Securities Markets

Data has emerged as a new functional requirement in modern-age decision making. All organizations treat data as an input to arrive at any decision-making pertaining to their products and services. The **Post Graduate Certificate in Management (Data Science in Financial Markets)**, offered by the National Institute of Securities Markets, is a premier programme which provides the blended knowledge of modern finance and its various application in collaboration with data processing techniques and tools to make, alter, various financial products, to make them more suitable for each class of investors. It offers a unique opportunity to learn and make use of the available financial data to make informed business decisions, keeping in mind the profitability and customer satisfaction. PGCM (DSFM) is a **14-month regular weekend programme, hosted at NISM's facility in Bandra Kurla Complex, Mumbai, and is approved by the All India Council for Technical Education (AICTE)**



Programme Architecture

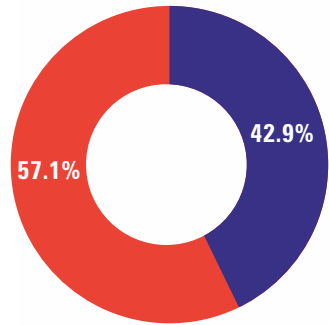
Subject Code	Trimester – I	Hours	Credits
101	Mathematics	30	3
102	Statistics	30	3
103	Computer Programming	30	3
Subject Code	Trimester – II	Hours	Credits
201	Financial Economics	15	1.5
202	Financial Institutions & Products	15	1.5
203	Advanced Computer Programming	30	3
204	Econometric and Time Series Analysis	30	3
Subject Code	Trimester – III	Hours	Credits
301	Fixed Income Securities	15	1.5
302	Financial Derivatives	15	1.5
303	Market Microstructure and Algorithmic Trading	30	3
304	Machine Learning and Deep Learning Models	30	3
Subject Code	Trimester – IV	Hours	Credits
401	Applications of Data Science in Securities Markets, Insurance Markets and Banking (Credit Risk)	15	1.5
402	Financial Data and Management	15	1.5
403	Security Analysis and Portfolio Management	30	3
404	Big Data Processing and Visualization	30	3
Subject Code	Trimester – V	Hours	Credits
501	Financial Analytics	30	3
502	Project/Internship		6
Total Programme Credits			45



Faculty Members

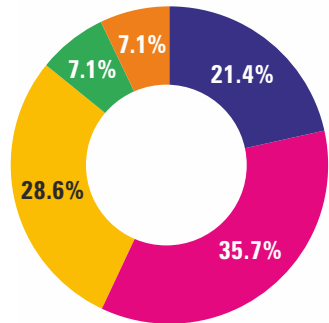
Dr. Kirti Arekar	Professor – School for Securities Education (SSE)	Mathematics, Econometrics & Time Series Analysis, Visualization
Dr. Dhiraj Jain	Professor – School for Securities Education (SSE)	Statistics, Fixed Income Securities, Financial Derivatives
Dr. Jinesh Panchali	Professor – School for Securities Education (SSE)	Financial Institutions & Products, Security Analysis
Dr. Kapil Shrimal	Associate Professor – School for Securities Education (SSE)	Portfolio Management
Mr. Suneel Sarswat	Adjunct Faculty	Computer Programming, Advance Computer Programming
Dr. Venkatachalam Shunmugam	Adjunct Professor	Financial Economics
Mr. Rounak Moondra	Visiting Faculty	Market Microstructure and Algorithmic Trading
Prof. Tanushree Bhattacharjee	Visiting Faculty	Machine Learning and Deep Learning Models, Application of Data Markets, Big Data Processing Insurance Markets and Banking (Credit Risk)
Prof. Sundaram Iyer	Visiting Faculty	Financial Data Management

Batch at a Glance (2022-2023)



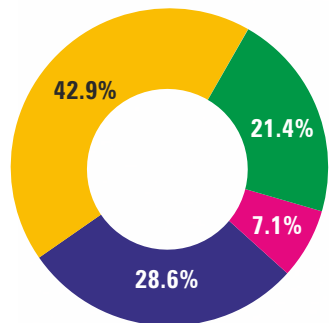
Level of Education

- Graduation
- Post Graduation



Educational Qualification

- Business Administration
- Engineering
- Economics
- Computer Science
- Management Studies



Work Experience

- Fresher
- 0-2 Years
- 2-5 Years
- 5+ Years



Technical and Financial skills imparted by the Program

Strong Foundation:

- Linear Algebra
- Calculus
- Probability Distributions
- Hypotheses Testing
- Descriptive Statistics
- Inferential Statistics
- Business Analytics

Familiarity with ETL Tools:

- Data Cleaning
- Database Development and Administration
- Data Transformation Techniques

Tools and Packages:

- **Libraries/Modules** - NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, BeautifulSoup
- **Tools** - R, Python, PowerBI, Microsoft Excel (Basic + Advanced), Google Analytics, Algorithmic Trading Strategy Builder

Hands-on Experience:

- Functional and Object Oriented Programming
- Exception Handling
- Data Structures and their Manipulation
- Visualization tools like PowerBI
- Financial Analytics

Fundamental & Advanced Skills:

- Machine Learning
- Supervised and Unsupervised Learning Methods
- Algorithms and Methods for Clustering and Classification
- Optimization Techniques
- Big Data



Student Profile



Adarsh Gupta

Qualification:

MBA (International Business), Pondicherry University, 2015
B.Com (Accounts), Magadh University, 2013

Internship:

Machine Learning, Bharat Intern, (2 Months)

Work Experience:

I) SPI Global, SME, (42 Months)
II) Hurix Digital, Associate, (6 Months)
III) Jana Small Finance Bank, Senior Executive, (5 Months)



Yash Mehra

Qualification:

B.A. (Hons)(Economics), University of Delhi, 2021

Work Experience:

I) Mutual Fund Distributors, Self Employed, (36 Months)
II) Penned Peeps, Event Management (11 Months)



Vipul Anand

Qualification:

B.E. (Computer Science and Engineering), Visvesvaraya Technological University, 2014

Work Experience:

I) Amazon, Associate SWAT, (34 Months)
II) Concentrix India Pvt. Ltd., Sr. Practitioner-CRM Operation, (11 Months)



Heizal Jose

Qualification:

M.Phil. (Applied Economics), Cochin University of Science and Technology, 2022
M.A. (Applied Economics), Cochin University of Science and Technology, 2020
B.A. (Economics), Mahatma Gandhi University, 2018



Amith Mohan

Qualification:

B.A. (Economics), University of Calicut, 2021



Murugesan R

Qualification:

B.Tech (Information Technology), Anna University, 2010

Work Experience:

I) Prelude Systems, Senior System Analyst, (Feb. 22 - Present)
II) National Crime Records Bureau(MHA, GoI), Senior Technical Officer, (88 Months)

Student Profile



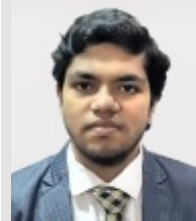
Kuldeep Kumar Trivedi

Qualification:

MBA (Finance & Marketing), Dr. APJ Abdul Kalam Technical University, 2020

BBA, Chhatrapati Shahu Ji Maharaj University, 2013

Work Experience: HDFC Life Insurance Ltd., Sr. Corporate Agency Manager (23 Months)



Parth Puneet Verma

Qualification:

B.Sc (Computer Science), University of Mumbai, 2022



Sowmya Aluguvelli

Qualification:

B.Tech (Civil Engineering), Jawaharlal Nehru Technological University, 2015

Work Experience:

I) Keystone Data System Pvt. Ltd. (Client-Yes Bank), Process Associate, (12 Months)

II) Zoylo Digi Health, Customer Care Executive, (12 Months)

III) Trader, Self Employed, (48 Months)



Seema Ogare

Qualification:

MBA (Finance), Sikkim Manipal University, 2014

Post-Graduate Diploma in Advanced Software Technology, CDAC (Formerly NCST), 2003

B.E. (Computer Technology), Nagpur University, 2001

Work Experience:

I) Majesco, Solution Architect, (May 21 - Present)

II) Majesco, Associate Manager, (24 Months)

III) Capgemini, Project Lead, (92 Months)

IV) TCS, Asst. Software Engineer, (52 Months)

V) Arrk, Java Developer, (26 Months)

VI) Connexus, Software Developer, (11 Months)



Siril Kanth Palapati

Qualification:

Master in Technology Management (Research in Construction Management), Bowling Green State University (USA), 2017

B.Tech (Civil Engineering), Jawaharlal Nehru Technological University, 2015

Work Experience:

I) Estimator/Project Manager, WKM Solutions, LLC (USA), (25 Months)

II) Trader, Self Employed, (54 Months)



Ashutosh Kumar

Qualification:

Post Graduation Diploma in Quantitative Finance, National Institute of Securities Markets & Mumbai University, 2017

M.A. (Applied Economics), Pondicherry University, 2016

B.A. (Hons)(Economics), Patna University, 2013

Work Experience:

National Institute of Securities Markets, Sr. Assistant Manager, (Feb. 2018 - Present)

Student Profile



Santwani Amit Moorajmal

Qualification:

BMS (Finance), University of Mumbai, 2009

Work Experience:

- I) Zerodha Partner, Self Employed, (Present)
- II) Aegis (Client-Essar Group Company), Associate, (14 Months)
- III) Collabera (Client-Capegemini), Associate in Data Management, (12 Months)
- IV) Nirankar Investments, Relationship Manager, (60 Months)
- V) Khushi Garments, Self Employed, (36 Months)
- VI) Saisha Enterprise, Self Employed, (36 Months)



Pushkar Mehendale

Qualification:

B.E. (Mechanical Engineering), University of Mumbai, 2011
Diploma (Mechanical), Shreeram Polytechnic, 2008

Work Experience:

- I) Kacheri Workspace Solutions, Self Employed, (Jan. 20 - Present)
- II) Ingophy Consultants Pvt. Ltd. (Neilsoft Ltd.), Business Development Executive, (24 Months)
- III) Voltas Ltd., Senior Engineer, (14 Months)



Placement Office

Placement Committee	
Mr. Sanjeev Bajaj +91-7631608805 GM - Marketing & Communications Dept. & Head, Placement Assistance Cell	Dr. Kirti Arekar +91-9323196933 Professor & Program Director PGCM (DSFM)
Placement Co-ordinator	
Ms. Shubhangi Chaturvedi Placement Co-ordinator, NISM +91-7218277968	
Student Placement Committee	
Vipul Anand +91-7042609776	Adarsh Gupta +91-8148417639
Email: pgcm.placement@nism.ac.in	



NATIONAL INSTITUTE OF SECURITIES MARKETS

NISM REGISTERED OFFICE

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Mohopada, Rasayani, District Raigad,
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Board Line: +91-22-66735100/01

