PG Certificate Program in Financial Technologies

Cohort 2

Jointly offered by NSE Academy Ltd. and IMT, Hyderabad
Introduction

Change accelerated through technology is transforming every aspect of our lives and the business landscape immensely. Businesses across sectors are adopting technology and innovating to gain a competitive advantage. Technology is driving financial transactions, investment decisions, market analysis, risk management and advisory services. Global crises such as the pandemic, subsequent lockdowns, cross-border conflicts, and sanctions have further accelerated this technological transformation. BFSI's success is strongly rooted in Financial Technologies, ‘FinTech’. India is one of the fast-growing fintech markets in the world with an estimated market size of $150 billion by 2025. Companies in the BFSI sector need highly skilled manpower with both an understanding of finance and relevant expertise in technology, who can manage and navigate the FinTech business world, which is filled with phenomenal opportunities. The PGP Certificate in Financial Technologies equips its participants with essential knowledge and skills to pursue a rewarding career and be a part of the FinTech growth story.

About the Program

The **PG Certificate Program in Financial Technologies** is jointly offered by the **Institute of Management Technology, Hyderabad, and NSE Academy Ltd**. The program curriculum is industry-oriented and covers global trends, and best practices. This six-month program provides a panoramic understanding of futuristic technologies like **Cryptocurrencies, Blockchain, AI, Machine Learning, FinTech Regulations**, etc. The Program is for professionals in Banking, Financial Services, Insurance, Management, Consulting, and Technology, who want to be at the forefront of the FinTech Revolution and wish to lead FinTech initiatives in their organizations or want to start their own. The Program aims at imparting skills that are required in the FinTech Industry and alongside inculcates strategic leadership competencies through various pedagogical interventions such as group discussion, presentation, and case discussion. The Program equips the participants to stay relevant in the current disruptive business environment.

"When one is groping through the maze of opportunities to get educated all about Fintech who else can help you but NSE ACADEMY in collaboration with IMT Hyderabad. Right from the beginning of the course, they have been guiding through the entire process in a highly professional manner. The course study, the flow, course content, knowledge of the professionals who teach us, industry professionals’ sharings, etc., has been meticulously planned in such a manner that any layman could understand the entire set of modules. At the age of 56, and being a basic Commerce Graduate, with no technological background, if I can, am very sure that anybody undergoing such a course would do much better than me and it is no rocket science."

-Sathish Kumar Chandrasekar
CEO – Tradewise
Batch Profile*

The Programme batch consists of participants from diverse backgrounds with a wide range of experiences for enriched collaborative learning.

Work Experience Distribution

Functional Domain Distribution

Batch-1 Completed, where some of the participants were working in organisations such as SBI, ICICI Pru, Wipro, Aditya Birla Capital, Clickpost, etc.
Career Opportunities in FinTech

The demand for FinTech professionals is growing in the areas of equity research, advisory, risk management, and banking. According to the Times of India "More than 60% of fintech companies in India report a shortage of skilled employees". The program participants enjoy enhanced career prospects in Banking Institutions, Assets Management Companies, Consulting Firms, Private Equity, Venture Capitalist, Credit Rating Agencies, Insurance, NBFCs, Financial Services Institutions, FinTech StartUps, etc.

Some of the FinTech roles in demand are - Financial / Business Analyst, Product Manager, Blockchain Developer, Risk and Compliance Expert, Cyber Security Analyst, Quantitative / Data Analyst, etc.

Source: Major skill gap created by India's rapid adoption, TOI

FinTech Trends

PAYMENTS / BILLING

INSURANCE

PERSONAL FINANCE

CAPITAL MARKETS

BLOCKCHAIN/CRYPTO

REMITTANCES

LENDING

MORTGAGE

"The PG certificate in Financial Technologies course offered by NSE Academy, in association with IMT Hyderabad has helped me gain deeper insights into the newer technologies that are being leveraged in the financial industry today. The modules are delivered by IMT Hyderabad Faculty and industry experts in an easy-to-understand manner. The course content is relevant and the support provided by IMT Hyderabad and NSE academy made it a smooth experience for us!"

-Ishupreet Kaur
IT Admin & Circular Economy Advocate
## Program Coverage

### Module 1
**Overview of Financial Technology**
- Financial Technology
- India’s FinTech Ecosystem
- FinTech Adaption

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<th>Emerging Technologies</th>
<th>Value Creation</th>
<th>FinTech Global Scenario</th>
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### Module 2
**IOTs and APIs**
- Internet of Things
- Financial System Communication

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<th>Application Program Interfaces</th>
<th>Open Banking</th>
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### Module 3
**BlockChain**
- Introduction
- Hashing
- Smart Contracts & Dapps
- Non-Fungible Token

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<th>Distributed Ledger Technology</th>
<th>Encryption &amp; Decryption</th>
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<td>DeFi</td>
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### Module 4
**Cryptocurrencies**
- Crypto Exchanges
- BlockChain Applications
- Metaverse

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<th>Initial Coin Offerings</th>
<th>Tokenization and NFT</th>
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### Module 5
**Avenues of FinTech**
- Equity Crowd Funding
- Wealth Management

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<th>P2P and Marketplace Lending</th>
<th>Insure Tech</th>
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### Module 6
**AI/ML Strategies for FinTech**
- Introduction to AI/ML
- Deep Learning

| Difference between AI & ML   | Fintech Applications / Case Studies |

### Module 7
**FinTech Regulations**
- Govt. initiatives in India- NPCI, UPI, OCEAN
- Data Protection Laws & Regulations

| Security and Privacy in FinTech |

### Project Work
Pedagogy

The PG Certificate Program in Financial Technologies is an online program that consists of a series of lectures, simulations, group discussions, case discussions, projects, assignments, online assessments, and hands-on training. Participants are provided with ample opportunities to interact with industry professionals to keep them abreast of the latest trends. Our teaching and learning model encompasses:

- Blended technology-enabled education
- Resourceful faculty
- Application-based pedagogy
- Collaborative learning approach
- Sessions by Industry Professionals
- Harvard Cases
- Experiential learning through practical & hands-on training

Case Studies

- **PayTM** - Navigating the transition from e-Wallet to Payments Bank
- **Funding Societies** - Leveraging FinTech to support small businesses
- **Citi Bank** - Innovating the customer’s journey with FinTech
- **Street Shares, Inc.** - Fintech platform lending business
- **Cutting through the Fog** - Finding a future with Fintech
- **National Payments Corporation of India** - Cutting-edge FinTech ecosystem innovation in India
- **Building India's 2.0** - PayNearby
- **How Does Digital Transformation Happen? The Mastercard Case**

Disclaimer: The case studies are for educational purpose only.

"The thing I like most is the structure of the course. The course not only gave me insights into Financial Technologies but also gave me detailed knowledge about its practical application of it. Faculties are very helpful in clearing the doubts and making complex topics simple and easy to understand."

-Eka Goswami

Asset Accounting – British Petroleum
Nitin Kalé is a Professor in the Information Technology Program (ITP) and the Epstein Department of Industrial and Systems Engineering (ISE) at the Viterbi School of Engineering, University of Southern California. He has taught at ITP since 1995 in the areas of programming, web design, interactive multimedia, Enterprise Resource Planning (ERP), and data analytics. He has also been teaching at ISE since 2005 in the area of database design and implementation. Nitin’s current areas of interest are blockchain, cryptocurrencies, database modeling, enterprise information systems, business intelligence, and big data analytics. Nitin developed a minor in Enterprise Information Systems in 2012. In 2016 he led the effort to launch a Minor in Applied Analytics which has garnered popular interest from undergraduate students at USC and is growing rapidly.

He is the recipient of the 2016 Majdi Najm Outstanding Service Award from SAP University Alliances. He received the 2020 John O’Brien Faculty Award for Service, Viterbi School of Engineering.
Prof. (Dr.) Surajit Ghosh Dastidar

*Associate Professor - IT & Analytics & Chairperson - Centre for Digital Transformation*
*IMT, Hyderabad*

Dr. Dastidar has around 20 years of experience in academics and research. He teaches courses on AI/Machine Learning, Predictive Modelling, Decision Analytics, Business Modeling and Business Statistics. He was a Visiting Research Scholar at the University of Toledo, USA. He has also participated in the Summer School at London School of Economics & Political Science - in Data Science and Big Data Analytics. In 2019, he has been recognized as SAS Faculty Scholar by SAS Institute. He has also won numerous awards such as AIMS Best Case Award, ISB Case-Chase Award, Sitaram Rao Livelihood Case Award, R. K. Srivastava Case Award, Outstanding Management Teacher Award, Young Management Researcher Award. He has published in journals like Journal of Statistical Software, International Journal of Business Analytics and Intelligence, Journal of Advances in Management Research among others. He has done Masters in Business Management from Department of Business Management, University of Calcutta with a specialization in Operations Research and Systems Analysis and a Ph.D from ICFAI University.

Mr. Sharat Chandra

*Blockchain & Emerging Tech Evangelist*

Mr. Sharat Chandra is a keynote speaker, Blockchain & Emerging Tech Evangelist and ecosystem builder. He advises across sectors, with a focus on blockchain and fintech. He drives engagements with Governments, Policy Makers, & Industry Associations. He is recognized as Hedera MVP and has mentored multiple start-ups in blockchain and FinTech space. He leads IET India’s Blockchain Working Group and has contributed to the formulation of Tamil Nadu Government’s Blockchain Policy. He is also associated with Barclay Rise - Barclay’s flagship FinTech mentorship program and conducts knowledge-sharing sessions with start-ups. He writes thought leadership articles on technology in ET Markets, Express Computer, NASSCOM Community, Entrepreneur India, and ET Insights. He is featured regularly in leading publications such as Financial Express, TechCircle, The Quint, LiveMint, and Inc42.
Duration and Schedule

- Six months | Online
- Sundays, 3:00 PM to 6:00 PM (IST)

Ideal For

- Early Career Professionals
- Aspiring FinTech Professionals engaged in middle or senior level in Banking, Financial Services, Management & Technology
- Entrepreneurs and Business Owners

Program Fees

Rs. 95,000/- plus GST

For further information, contact

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About NSE Academy Limited

NSE Academy Ltd. has been established as a wholly owned subsidiary of National Stock Exchange of India Limited, which promotes financial literacy and skill oriented financial markets courses with online testing and certification system. NSE Academy, in association with reputed Universities & Colleges in India, has been offering various certification programs at the campuses of the respective Universities / colleges / institutes. NSE Academy Certification courses have been designed with industry participants for grooming of candidates with industry related skills. All the programs are crafted to prepare the students for future role in the financial and technology industry.

About IMT, Hyderabad

IMT Hyderabad, a leading B School in India, offers programs in the area of Management at the post-graduate level and doctoral level. IMT Hyderabad is accredited by South Asian Quality Systems (SAQS) & the National Board of Accreditation (NBA) and is committed to nurturing socially responsible business leaders through quality management education. The mission of IMT Hyderabad is to promote academic excellence, enhance industry readiness through learner-centric pedagogy and industry-inspired curriculum, and instill social conscientiousness.