

# Executive Program in **Fintech & Applied Financial Analytics**

**6 Months | Live & Online | Weekend Sessions**



Alumni Status



Additional Program on Python



150+ Hours of Blended Learning

Learn From Experienced Faculty of  
**Indian Institute of Management, Kashipur**

## Program Details



The Executive Program in Fintech and Applied Financial Analytics is specifically designed for professionals and recent graduates in commerce & engineering who aspire to carve their career in the field of financial technology and analytics. This program provides a comprehensive understanding of the intersection between finance and technology, equipping participants with the necessary tools to excel in the rapidly evolving financial industry.

This immersive certification program is meticulously crafted to prepare participants for diverse roles in the financial industry, including FinTech startups, traditional financial institutions, consulting firms, and regulatory agencies.

6 Months of immersive learning from experienced faculty members of IIM Kashipur

Industry aligned curriculum to learn intersection between finance, analytics & technology

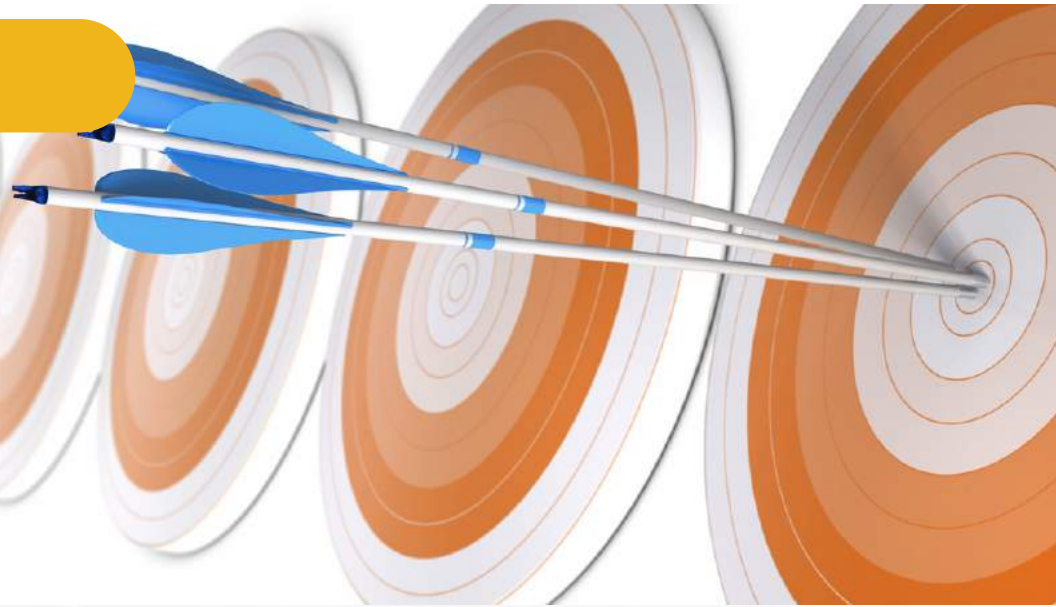
Class discussions, cases, hands-on-projects, interactive & engaging sessions to clear doubts

Convenient online weekend sessions for flexible learning & better time management

Program certificate jointly issued by IIM Kashipur & NSE Academy



## Program Objectives



- **Build Foundation:** Provides a foundation in accounting principles, financial analysis and stock valuation so participants can accurately understand and interpret financial data.
- **Develop Analytical Skills:** Improves participants' analytical skills by teaching advanced techniques in time series analysis, derivatives analysis, and credit risk assessment.
- **Explore Cutting-Edge Technologies:** Introduce participants to blockchain technology and how it can be used in finance, making sure they understand the basics and how DLLs can be used in different financial environments.
- **Understand Digital Currencies and Digital Lending:** Learn about digital currencies and how they can be used in new lending models like P2P loans.
- **Hands-on Exercises and Practical Application:** Facilitate hands-on learning experiences and real-world projects, enabling participants to apply theoretical knowledge to practical scenarios to enhance problem-solving abilities.
- **Foster Innovation and Creativity:** Encourage innovative thinking and creativity in digital lending, blockchain applications, and financial analytics to develop innovative solutions for the ever-changing financial technology landscape.



## Why do professionals aspire to learn Fintech and Analytics?

- **Unparalleled Demand:** Fintech professionals are in demand globally, and India is a key player in this rapidly growing sector, passing through digital transformation revolution.
- **Specialized Skills:** Acquire in-demand specialized skills valued by financial institutions, fintech startups, core IT sector, manufacturing and consulting firms among others.
- **Diverse Career Opportunities:** Professionals can pursue diverse career paths, ranging from BFSI and NBFC companies to agile startups and across the IT, manufacturing and service sectors.
- **Competitive Salaries:** Professionals with Fintech expertise often command competitive salaries due to the specialized nature of their skill set.
- **Innovation to the Core:** Be at the forefront of the financial innovation wave transforming organizations across industries, contributing to and benefiting from groundbreaking advancements.

## Program Benefits

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- **Relevance in a Changing Landscape:** Stay ahead in an ever-evolving financial sector by acquiring skills that align with current industry demands.
  - **Career Advancement:** Unlock diverse career paths and enhance professional outlook by showcasing specialized skills in Fintech and Applied Financial Analytics.
  - **Competitive Edge:** Stand out in a competitive job market with practical, hands-on skills that demonstrate your ability to apply theoretical knowledge to real-world challenges.
  - **Networking:** Connect with fellow professionals and potential collaborators, expanding your professional network.
  - **Tailored Career Kickstart:** Gain a foothold in the fintech industry and launch your career with a skill set specifically tailored to meet the demands of the Fintech industry.
  - **Bridge the Academic-Industry Gap:** Seamless transition from academia to the professional realm by gaining practical, industry-relevant skills.
  - **Foundation for Future Growth:** Lay foundation for sustainable career development and growth in the dynamic field of Fintech.
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## Program Director



### **Dr. Dilip Kumar**

PhD in Finance

Chartered Financial Analyst

16+ Years of Teaching Experience

Prof. Dilip Kumar is an Associate Professor in the Finance and Accounting area at the Indian Institute of Management Kashipur. He holds a doctorate in Finance from the Institute for Financial Management and Research (IFMR), Chennai. He has more than 16 years of teaching and research experience. He is also involved in various executive education programs on risk management and financial analytics.

His research interest includes risk management, systemic risk modelling, volatility estimation and volatility modelling, and ESG aspect of business. His teaching interests include financial analytics, risk management, financial derivatives and corporate finance.



## Indian Scenario



“The Indian market economy offers enormous opportunities in the field of fintech and financial analytics. According to the NASSCOM Report, the promising India FinTech market is expected to reach \$1 Tn in throughput and \$200 Bn in revenue by 2030. India stack and innovation by FinTech startups has powered the financial inclusion drive being witnessed in the country.”

Source: <https://www.nasscom.in/events/nasscom-india-fintech-day-2023>

The adoption of artificial intelligence (AI) and machine learning (ML) in the financial industry is increasing, leading to a surge in demand for professionals skilled in financial analytics. The Government of India through its Press Release Bureau website highlights. “Today 40% of all payments done in India are digital. The system has grown rapidly and is now used by close to 300 million individuals and 50 million merchants.”

Source: <https://pib.gov.in/FeaturesDeatils.aspx?NoteId=151350&ModuleId%20=%202>



The Indian economy demonstrates a positive trend for professionals with knowhow in fintech and applied financial analytics.

## Program Contents



### ● **Module 1: Introduction to Fintech and Applied Financial Analytics**

- Understanding Fintech: Evolution and Impact
- Applied Financial Analytics: Role in Modern Decision Making
- Regulatory Landscape in Fintech
- Navigating Compliance and Legal Considerations
- Ethical Implications of Fintech

### ● **Module 2: Basic Accounting Analytics**

- Basics of Financial Statements (Balance Sheet, Income Statement, Cash flow statement)
- Analysis of Financial Statement
- Predicting Corporate Bankruptcy
- Detecting Patterns in Financial Statements

### ● **Module 3: Project Feasibility Evaluation**

- Time Value of Money (Future value, present value, annuity, perpetuity)
- Net Present Value (NPV)
- Internal Rate of Return (IRR)
- Payback Period and Discounted Payback Period
- Financial Model Exercise for Project Feasibility Evaluation and Financing

### ● **Module 4: Basic Equity Analysis and Firm Valuation**

- Making Capital Investment Decisions
- Dividend Discount Model
- Return, Risk, Covariance, Risk Premium
- Return on Equity, Security Market Line (CAPM) (Cost of equity), Cost of Debt, Analysis of Beta, Weighted Average Cost of Capital (WACC)
- Discounted Cash Flow Method (Free cash flow to firm-based approach)
- Relative Valuation



### Module 5: Time-Series Analysis

- Autoregressive (AR) Model, Moving average (MA) Model, ARMA Model, GARCH Model,
- GJR-GARCH and EGARCH Model: Forecasting and Evaluation.
- Implications of These Models in Implementing Trading Strategies

### Module 6: Derivatives Analytics

- Futures and Forwards (Hedging and speculation, Mark-to-market, Futures/Forward Pricing, Cross-Hedging),
- Options (Hedging and Speculation using Options, Option Trading Strategies, Option Pricing, Delta Hedging, Delta-Gamma Hedging)

### Module 7: Introduction to Blockchain Technology and its Importance

- Blockchain Basics & Architecture
- Crypto Primitives

### Module 8: Applications of Blockchain

- Payments and Secure Trading
- Compliance and Mortgage
- Financial Trades

### Module 9: Basics of Digital Currencies

- Digital Currencies in a Portfolio
- Structural Flaws and Risks

### Module 10: Digital Lending Innovations

- Peer-to-Peer Lending and
- P2P Marketplace Lending Business Model
- Consumer Lending

### Module 11: Credit Risk Analytics

- Credit Scoring
- Probability of Default Estimation
- Credit VaR Estimation





## Pedagogy

The program will be largely taught through **class discussions** followed by **hands-on sessions** to build the necessary skills in the participants. The participants will be expected to consult **reading materials, work on exercises and assignments, deliver presentations** and participate in other evaluation components that will be designed to reinforce the learning outcomes. The program will be delivered by faculty members from prestigious institutions like IIM Kashipur practitioners. Throughout the duration of the course, students will have the **flexibility to reach out to the professors on real time** during the class or offline to **raise questions and clear doubts**.

## Evaluation Methodology

IIM Kashipur will evaluate all the participants based on

- (A) Quizzes
- (B) Assignments
- (C) Project Work/ Final Examination

The evaluation process is completely online.



## Certification

### 1. Certificate of Completion (CoC)

- a. A minimum of 60% attendance is required to qualify for CoC.
- b. Score minimum 50% marks overall in
  - Quizzes
  - Assignments
  - Project Work/ Final Examination

### 2. Certificate of Participation (CoP)

Participants will receive CoP if the criteria for CoC is not fulfilled.

## Eligibility & Prerequisite

- For Indian Participants – Graduates from a recognized University (UGC/AICTE/DEC/AIU /State Government) in any discipline with Mathematics/Statistics up to 10+2 level.
- For International Participants – Graduation or equivalent degree from any recognized University or Institution in their respective country.
- Proficiency in English, spoken & written is mandatory.



## Ideal For



This program is designed for participants with varying levels of knowledge, providing foundation for beginners while offering advanced topics and practical applications for experienced professionals. It caters to a wide audience keen on the complexities of FinTech and applied financial analytics. The Program is ideal for:

- Professionals in the Financial Industry
- Technology Enthusiasts and Innovators ●—●
- Entrepreneurs and Start-up Enthusiasts
- Data Analysts and Scientists ●—●
- Regulatory and Compliance Professionals
- Consultants and Advisors ●—●
- Recent Graduates and Career Switchers
- Professionals from Diverse Backgrounds ●—●
- Professionals from Non-Financial Sectors
- Faculty Members and Teachers ●—●

## Program Schedule

<b>DURATION</b>	<b>DAY</b>	<b>CLOCK TIME</b>	<b>FORMAT</b>	<b>LMS</b>
6 Months	Saturday	6:30 PM To 9:30 PM	Live and Direct- To-Device	NSE Knowledge Hub

# Program Fee

**₹ 1,05,000/-**  
Plus GST

[Register Now](#)

Alumni Membership is Optional with a Fee of Rs. 10,000/- payable directly to IIM Kashipur

**Learning is more impactful when  
you join with your colleagues**

**Contact NSE Academy for Corporate Pricing & Scholarships**

**Shivkant Singhal**

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## About IIM Kashipur



**Indian Institute of Management, Kashipur**

The Indian Institute of Management Kashipur (IIM Kashipur) is second-generation IIM set up by the Government of India in 2011. It aspires to achieve excellence in management education by using innovative teaching methods, promoting high-quality research, and practicing sustainable leadership. The institute strives to create and disseminate knowledge through applied and interdisciplinary research and practices in emerging areas of management. The institute develops socially conscious, competent, and ethical business leaders and researchers capable of critical thinking, innovation, and entrepreneurship while being inclusive and focusing on both regional development and internationalization. Celebrating ten years of serving the education, the institute is ranked,



**NIRF\***



**Outlook-ICARE\***



**D2C\***

The institute is member of the  
Association to Advance  
Collegiate Schools of Business  
(AACSB).





## About NSE Academy



NSE Academy Ltd. is a wholly-owned subsidiary of the National Stock Exchange of India Ltd. (NSEIL). NSE Academy enables the next generation of BFSI and FinTech professionals with industry-aligned skills through capacity-building programs and certification courses, powered by an online examination and certification system. The courses are well-researched and carefully crafted with inputs from industry professionals. NSE Academy works closely with reputed universities and institutions across India in building a competent workforce for the future of BFSI and FinTech. NSE Academy also promotes financial literacy as an essential life skill among youngsters - a contribution towards financial inclusion and wellbeing.

### Disclaimer:

- It is clarified that NSE Academy does not, in any manner whatsoever, assure, warrant, guarantee, or promise any job/placement/advancement to any Participant. Under no circumstances, NSE Academy shall be held responsible/liable for failure on the part of the Participants to pass / successfully clear the interview process or the requirements to successfully secure a job.
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- The "Executive Program in FinTech and Applied Financial Analytics" program is administered by the NSE Academy Ltd and Indian Institute of Management, Kashipur. The participants need to complete certificate criteria independently to be eligible for the respective certificates.
- The Course Content/Outline mentioned herein is indicative and may be modified by NSE Academy in the best interest of the participants.
- The fee paid is non-transferable and non-refundable.
- To know more about IIM Kashipur ranking, please visit
  - NIRF Raking: <https://www.nirfindia.org/2023/ManagementRanking.html>
  - Outlook-ICARE: <https://www.outlookindia.com/education/outlook-icare-india-mba-rankings-2023-india-s-top-government-mba-colleges-magazine-227770>
  - Dare2Compte (D2C): <https://www.iimkashipur.ac.in/students-corner/events-activites>