ज्ञानम् जयति सर्वत्र

IIM MUMBAI

Executive Certificate Programme in

APPLIED FINANCIAL RISK MANAGEMENT

IIM Mumbai Certification | IIM Mumbai Campus Immersion | Live Weekend Sessions

IIM Mumbai Executive Alumni Status



About IIM Mumbai

IIM Mumbai erstwhile known as NITIE was established by the Government of India in 1963 with the assistance of the United Nations Development Programme (UNDP) and the International Labor Organization (ILO). IIM Mumbai has been consistently ranked among the top B-schools in India. IIM Mumbai is ranked 6th in the National Institutional Ranking Framework (NIRF) rankings for 2024 among Management Institutes across India. IIM Mumbai is committed to creating skilled professionals in diverse functional areas like Operations Management, Analytics, Finance, Marketing, Project Management, HR, Information Technology, and Sustainability Management.

Located in the Financial Capital of the country, IIM Mumbai has close interactions with the leading corporate houses, giving it the added advantage of integrating classroom knowledge with relevant practical inputs from industry professionals.IIM Mumbai's picturesque campus is surrounded on three sides by lakes. The lush greenery at the campus has earned it the moniker "God's Own Campus".

IIM Mumbai offers Master of Business Administration (MBA), MBA (Operations and Supply Chain Management) and MBA (Sustainability Management). IIM Mumbai, in collaboration with IIT Delhi, also provides Post Graduate Diploma to executives currently working in the Industry via the Visionary Leaders for Manufacturing Programme (PGPEx-VLFM) and One-Year Post Graduate Program for Executives. IIM Mumbai also offers the General Management Programme (GMP) for Defense Officers. All the courses offered at IIM Mumbai are Full-Time residential courses with rigorous academic and industry-oriented inputs.

IIM Mumbai, under the dynamic leadership of Prof. Manoj K. Tiwari, Director IIM Mumbai, is the nodal hub for capacity building in Logistics and Supply chain Management to promote the PM Gati Shakti Master plan.IIM Mumbai students have regular interactions and sessions from industry leaders and leading researchers, especially in Supply Chain and Operations Management. At IIM Mumbai, we host eminent faculty from international institutes like the Massachusetts Institute of Technology (MIT), USA, and Kellogg School of Management at Northwestern University, USA to take courses for students and working professionals across industries.

IIM Mumbai also has a vibrant Student Exchange Programme with several partner universities across North America, South America, Europe, and South-East Asia.

IIM MUMBAI RANKING IN NIRF 2024



CORE VALUES OF IIM MUMBAI

"INSPIRED"

I ntegrating Technology, Digitalisation and Entrepreneurship

N urturing Professionalism

S ustaining Environmental Sustainability

P romoting a Multicultural Perspective

I gniting Progressive Innovation

R esilient Adaptability

E mbracing Worldwide Collaboration

D iversity and Inclusion

The acronym **"INSPIRED"** effectively represents our core values, including diversity and technology integration, and reflects its commitment to fostering excellence in management education and practices.

In collaboration with UP TOP CAREERS

Overview:

The performance of modern economies relies heavily on financial markets, which are growing in size and complexity. Consequently, financial risk management has become a critical function for organizations, particularly financial institutions. This course provides an in-depth understanding of risk management, quantification, and mitigation techniques. The program also focuses on the relevance of Artificial Intelligence, Machine Learning, Climate Risk, and Sustainability in risk management.

Financial risk is categorized into four key areas:

Market Risk

Arising from fluctuations in asset prices and volatility.



Credit Risk

Resulting from counterparties failing to meet obligations.



In collaboration with UP TOP CAREERS

Liquidity Risk

Occurring when transactions cannot be executed at market prices due to cash flow constraints.



Operational Risk

Linked to internal processes, systems, or external events.



The course covers methods for measuring and managing financial risks across asset classes (equity, fixed income, currency, and commodities) and instruments, including quantitative techniques and regulatory frameworks.

Program Highlights:

1. The Program is delivered by both experienced faculty and practitioners
2. The Program is practice-oriented and would focus on hands-on data analysis using Programming and Python.
3. An Innovative pedagogy; lectures, case analysis, problem-solving approaches

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Program Structure

Module 1: Quantitative Methods

Objective

This course provides a rigorous introduction to the quantitative techniques used in risk management. It covers statistical modeling, financial mathematics, and computational methods to assess, measure, and mitigate risks in financial markets.

- **Discrete and continuous probability distributions**
- **Estimating the parameters of distributions**
- **Population and sample statistics**
- **Bayesian analysis**
- **Statistical inference and hypothesis testing**
- **Measures of correlation**
- **Linear regression with single and multiple regressors**
- **Time series analysis, and forecasting**

Module 2: Introduction to Derivatives

Objective

This course aims to provide a comprehensive understanding of derivatives. It explores derivative instruments, such as options, futures, forwards, and swaps, and their roles in hedging, speculation, and arbitrage strategies.

- **Structures and functions of financial institutions**
- **Structure and mechanics of over-the-counter (OTC) and exchange markets**
- **Structure, mechanics, and valuation of forwards, futures, swaps, and options, Hedging with derivatives, Interest rates, and measures of interest rate sensitivity**
- **Foreign exchange risk, Corporate bonds, Mortgage-backed securities.**

Module 3: AI, ML, FinTech, and Climate Risk

Objective

This part of the course will introduce the role and relevance of artificial intelligence in risk management. Also, how Machine Learning techniques and their applications in Investments. Finally, it deals with risk management and interface FinTech and Climate Risk

- **Introduction to Artificial Intelligence and its relevance to risk management**
- **Machine Learning Models and Investments Management. FinTech-enabled financial services and products**
- **The importance of Climate Risk to enterprise risk management function**

Module 4: Market Risk Management

Objective

This course provides a deep dive into the principles and quantitative techniques used to measure, analyze, and mitigate market risk in financial institutions. Participants will explore key risk metrics such as Value-at-Risk (VaR), Expected Shortfall, and stress testing, along with advanced statistical and computational models for risk assessment.

- **VaR and other risk measures, Parametric and non-parametric methods of estimation**
- **VaR mapping**
- **Backtesting VaR**
- **Expected shortfall (ES) and other coherent risk measures**
- **Extreme Value Theory (EVT)**
- **Modeling dependence: correlations and copulas**
- **Term structure models of interest rates**
- **Volatility: smiles and term structures**
- **Fundamental Review of the Trading Book**

Module 5: Investment Risk Management

Objective

This course equips participants with the knowledge and tools to identify, assess, and mitigate risks in investment portfolios. It covers quantitative techniques for portfolio risk measurement. Participants will learn to apply risk-adjusted performance metrics, diversification strategies, and hedging techniques to optimize investment decision-making.

- **Factor theory**
- **Portfolio construction**
- **Portfolio risk measures**
- **Risk monitoring and performance measurement**
- **Portfolio-based performance analysis**
- **Hedge funds**

Module 6: Credit Risk Management

Objective

This course provides a comprehensive understanding of credit risk, its measurement, and management techniques in financial institutions. Participants will explore credit risk assessment models, default probability estimation, credit rating systems, and regulatory frameworks such as Basel III. The course also covers credit derivatives, loan portfolio risk management, and stress testing methodologies to mitigate credit risk exposure.

- **Credit analysis**
- **Default risk: quantitative methodologies**
- **Expected and unexpected loss**
- **Credit VaR**
- **Counterparty risk**
- **Credit derivatives**
- **Structured finance and securitization, Basel II and III**

Module 7: Operational Risk Management

Objective

This course provides a comprehensive understanding of Operational Risk, equipping participants with the knowledge and tools to identify, assess, and mitigate risks that arise from internal processes, people, systems, and external events. Through real-world case studies and practical frameworks, learners will explore risk management strategies, regulatory requirements, and best practices to enhance operational resilience and safeguard organizational performance.

- **Statement analysis of Financial Institutions**
- **Investment Banking**
- **Corporate Finance**
- **Financial Institutions and Market**



Admission Process



Duration: 8 Months

Total Number of Hours: 90 Hours

(Online 80 Hours + At Campus 10 Hours)

Course Start Date:

07th September, 2025

IIM Program Fee

INR 1,60,000

+ 18% GST (Pay in easy EMIs)

Fee Payment Assistance

PAY IN INSTALMENTS

EDUCATION FINANCE

PAY IN ONE GO

In collaboration with UP TOP CAREERS

Who should attend / Target Segment

- Credit Risk Analyst
- Risk Manager
- Market Risk Analyst
- Compliance Officer
- Treasury Manager
- Financial Risk Analyst
- Internal Auditor – Risk & Controls
- Finance Manager
- Chief Risk Officer (CRO)
- Investment Risk Analyst
- Aspirants Seeking a Career in Finance Risk Management



Eligibility

Participants must be Graduates in any discipline or an equivalent diploma holder with minimum one year of experience.

Attendance

A minimum of 75% attendance is a prerequisite for the successful completion of this programme. The participants will have to secure the minimum pass marks in the evaluation components specified by the faculty.

Evaluation

- The evaluation methodology is the discretion of the faculty.
- Proctor base examination can be conducted.
- The methodology includes Online assessment, assignments and capstone project presentations.

Recorded Sessions Guidelines

Session recordings to be available to participants for 1 week post the session and it will be made available again 7 days before the evaluations / exams if any.

Course Roadmap

The online sessions will be held every Sunday. However, participants may experience live sessions on some Saturdays if the course roadmap requires it. The course roadmap will be prepared and shared by the Program Professor.

Campus Immersion:

Campus Immersion Guidelines

- The campus immersion is designed to bring participants back to a classroom setting. The in-person experience fosters meaningful engagement with faculty and allows participants to immerse themselves in the academic environment of the Institute.
- A single campus immersion will be conducted at the end of the program, lasting 2–3 days.
- The immersion will take place at the IIM campus and will include group presentations, live interactions with industry experts, sessions with program faculty and coordinators, access to the library, and a campus tour.
- Participation in campus immersion will be included in the overall attendance of the program.
- Travel, lodging, and boarding expenses for the immersion will be borne by the participants.
- The Institute will provide morning breakfast, tea/coffee, lunch, and evening tea during the immersion.
- Program schedule for the immersion to be shared after the commencement of the program.

Note: Family/Friends or any other member who is not a registered participant in the course, will not be allowed to visit the campus at the time of campus immersion.

Program Coordinators



Prof. Poonam Singh

Program Director

PhD (Economics) Indira Gandhi Institute of Development Research

Area & Groups: **Finance, Economics & Strategy**



Prof. M. Venkateshwarlu

Program Director

M.Com, CMA (Australia), Ph.D

Area & Groups: **Finance, Economics & Strategy**



Prof. Ajaya Kumar Panda

Program Director

Ph.D, M.Phil, M.A (School of Economics, University of Hyderabad)

Area & Groups: **Finance, Economics & Strategy**

Program Certificate

Upon completion of the "Executive Certificate Programme in Applied Financial Risk Management" from IIM Mumbai, the successful candidates will be awarded with the executive certificate from the institute. To qualify for the certificate, participants need to meet the minimum attendance requirements and have to submit their final project reports.



SAMPLE CERTIFICATE

CAFRMO01/25-26/010

IIM MUMBAI | भारतीय प्रबंध संस्थान मुंबई
Indian Institute of Management Mumbai

AWARDS THIS CERTIFICATE TO

XXXXX

in recognition of successful completion of the
Executive Certificate Programme
in
"Applied Financial Risk Management"
(100 Hours)

organized and conducted by the Institute during the period September 2025 – April 2026

PROGRAMME COORDINATOR

Prof. Poonam Singh **Prof. M. Venkateshwarlu** **Prof. Ajaya Kumar Panda**

PIC – IC **DEAN (SRIC)** **DIRECTOR**

**Certificate images are for illustrative purposes only and may be subject to change at the discretion of IIM Mumbai without notice.*

Note: Participants coming for campus immersion program will get their certificates the same day. Rest of the participants, who wish not to attend on campus session will be getting their certificates by courier after 45 working days from the date of course completion. Institute do not generate or issue soft copies of certificates to avoid forgery of certificates

In collaboration with UPTOP CAREERS

About Up Top Careers

The speedy pace of the universal revolution compels working professionals not only to gain mastery of current trends, digital transformations, and platforms but also to be able to connect that knowledge to their daily job. The ability to adapt and learn evolving trends can often unlock the next step in career advancement.

Up Top Careers is a dedicated platform for working professionals to help them to adapt, overcome, improvise and stay UP on the TOP in the career climbing race.

We believe that continuous learning is the key to maintaining a competitive edge and achieving rapid career growth. The concept is just not to offer rapid executive development programs but to make professionals self-aware of different career stages and the need for continued development, also helping working professionals to self-realize the essential of filling the gaps to have swift career growth.

The principle of executive education is not to follow traditional learnings but to welcome the right set of combinations in the development programs well aligned with the industry needs. We do believe that the executive programs cannot be uniform or traditional but have to be aligned with emerging industry inclinations as executives require highly actionable insights, frameworks, and strategies to apply in their own roles and processes which will empower them to meaningfully contribute to the success of their organizations and to their career growth.

Up Top Careers is the authorized admission partner for this program of IIM Mumbai

Always UP on the TOP

ISO certified Company 29990 : 2010

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INDIAN INSTITUTE OF MANAGEMENT MUMBAI

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IN COLLABORATION WITH

UP TOP CAREERS
Empowering Working Professionals to Lead

UNIVERSAL POTENTIAL TALENT OPTIMIZATION PLATFORM

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Note- uptopcareers is the authorized admission partner for this program of IIM Mumbai.

All the sessions will be delivered in the English language only