भारतीय प्रबंध संस्थान तिरूचिरापल्ली
Indian Institute of Management Tiruchirappalli

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PROFESSIONAL CERTIFICATE IN FINTECH & ARTIFICIAL INTELLIGENCE FROM IIM TIRUCHIRAPPALLI

About IIM Trichy

The Indian Institute of Management Tiruchirappalli (IIM Trichy) is a prominent institution established in 2011, part of the prestigious IIM family. Located in the vibrant city of Tiruchirappalli, Tamil Nadu, it has rapidly grown into a significant name in management education, earning consistent recognition for its academic excellence.

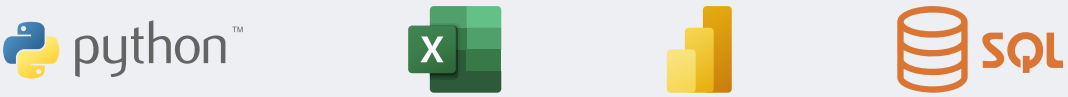
Key Highlights:

- Rankings: IIM Trichy is consistently ranked among India's top management institutes. As per the latest NIRF 2025 rankings, it is ranked 16th in the Management category and 9th among the IIMs. Notably, it was ranked 18th in the Business Today–MDRA B-Schools Ranking 2024
- Accreditation: IIM Trichy is an AACSB Business Education Alliance Member
- Global Collaborations: Engages in student and faculty exchange programs, joint research, and international workshops with renowned institutions worldwide

What Will You Learn?

The program offers a comprehensive blend of FinTech fundamentals and applied Artificial Intelligence. It covers digital payments, robo-advisory, AI/ML applications in finance, and data-driven decision-making. Designed using real-world case studies, it bridges finance, technology, and innovation for future-ready professionals.

Toolkit



Why Choose This Course?

- **IIM Trichy Certification:** Earn a prestigious credential from a top-tier IIM with global academic recognition.
- **FinTech Meets AI:** Get trained in the most transformative financial technologies, from blockchain to intelligent automation.
- **90+ Hours of Expert Instruction:** Learn directly from IIM Trichy's distinguished faculty and industry mentors through structured, high-impact modules.
- **Harvard Business School Case Studies:** Gain exposure to global best practices with selected HBS case studies woven into the curriculum.
- **Campus Immersion:** Experience the IIM Trichy campus, engage with faculty, and network with peers in an intensive in-person session.
- **Career-Focused Curriculum:** Tailored for working professionals, fresh graduates, and entrepreneurs aiming to lead in digital finance roles.
- **Industry Readiness*:** Get interview-focused coaching and AI-powered practice sessions to boost hiring outcomes.

**CGPA above 5 required*

Course Details

Course Duration	Live Classes	Certification
7 Months	3 hours per week	From IIM Tiruchirappalli

Certificate Eligibility: Minimum 75% live attendance and 40% marks in cumulative evaluations score

Course Curriculum

Module 1: Foundations of FinTech in Banking & Finance

Goal: To build a strong foundation in FinTech concepts, technologies, and applications, and understand their impact on banking, finance, and the FinTech ecosystem.

Back to Basics: Banking Meets FinTech

- Overview of banking and financial services
- What is FinTech? Definitions, scope, and domains
- Evolution of FinTech and its disruption of traditional models
- FinTech landscape: global and Indian context

Money in Motion: Digital Payments & Settlements

- Digital payments ecosystem: wallets, UPI, IMPS, RuPay, BBPS
- Cross-border payments and CBDCs
- Payment security, KYC/AML, and fraud risk
- FinTech–banking synergy in payments

Lending Revolution: From Banks to Platforms

- FinTech in lending and deposits
- Alternative lending models: P2P lending, BNPL, digital credit
- Digital banks and neobanks: models and challenges
- Open banking and API-driven lending innovation

Crowd Power & Collaboration

- Crowdfunding: donation, reward, equity, and debt models
- Global and Indian regulatory frameworks
- Collaboration models: bank–FinTech partnerships, embedded finance
- FinTech & banking synergy: competition vs. complementarity

Module Break: Mini Project / Simulation Presentations

Module 2: FinTech Innovation in Financial Markets & Regulatory Compliance

Goal: To explore how FinTech innovations are transforming financial markets while examining the regulatory and compliance landscape and associated challenges.

Smart Markets: Trading & Investment Innovation

- Algorithmic and high-frequency trading (HFT)
- WealthTech and investment platforms
- Robo-advisory and AI-driven portfolio management
- Social trading and digital investment platforms (eToro, Zerodha)

Tools Used: Python, Excel

Assignment: Hands-on simulation assignment on wealth management

New Frontiers: Alternative Assets & Risks

- Innovation in alternative assets (fractional real estate, crypto ETFs)
- Risks in digital investing (behavioral biases, technology failures)

Compliance by Design: RegTech & Monitoring

- RegTech fundamentals: KYC, AML, fraud detection
- Technology stack for compliance monitoring
- Cross-border regulatory challenges in digital finance

Balancing Act: Innovation Meets Regulation

- Integrating innovation with regulation
- Ethical AI in financial markets
- Future of compliance: SupTech, sandboxes, and beyond

Module Break: Mini Project / Simulation Presentations

Module 3: FinTech Data Preparation & Analysis – Tools

Goal: To develop practical skills in preparing, analyzing, and visualizing financial data using industry-standard analytical tools to support FinTech decision-making and innovation.

Data Analysis using Excel

- Data cleaning, transformation, and validation techniques
- Using formulas, pivot tables, and lookups for financial data analysis
- Financial modeling and scenario simulation

Data Analysis using SQL

- Structuring and querying datasets with SQL
- Data joins, aggregations, and subqueries for analytics
- Extracting insights from transactional data
- Integrating SQL outputs with Excel or BI tools

Data Analysis using Power BI

- Building interactive dashboards for financial reporting
- Connecting data sources and applying transformations
- Visualizing key metrics and trends in FinTech operations
- Storytelling with data through dynamic reports

Data Analysis using Python

- Python for finance: a quick ramp-up
- Data wrangling and analysis with Pandas
- Numerical computing with NumPy
- Visualizations for financial insights

Module 4: Artificial Intelligence – Applications of ML

Goal: To introduce foundational concepts of artificial intelligence and machine learning, develop familiarity with key techniques, and map their relevance to financial services, banking, markets, and FinTech innovation.

AI & ML Foundations

- What is AI? What is machine learning? Core definitions, scope, and differences
- Types of ML: supervised, unsupervised, reinforcement learning
- AI/ML applications in finance

Machine Learning for Credit Risk & Fraud Detection

- Credit-scoring models
  - Logistic regression and decision trees
  - Anomaly detection using supervised ML techniques
- Classification process and metrics
  - Train–test split and cross-validation
  - Evaluation metrics: accuracy, precision, recall, F1-score
  - Confusion matrix and ROC–AUC in credit-risk analysis
- Anomaly detection in finance
  - Fraudulent-transaction detection with supervised models
  - Handling imbalanced datasets
  - Cost-sensitive learning

Tools Used: Python

Machine Learning for Customer Insights

- Churn prediction in FinTech and banking
  - Introduction to ensemble machine-learning techniques
  - Predicting customer churn using historical behavior

Tools Used: Python

Module 4: Artificial Intelligence – Applications of ML

Machine Learning for Customer Insights

- Customer segmentation
  - Clustering basics (k-means and hierarchical clustering)
  - Using clustering to identify customer groups
- Identifying insights using text analytics

Tools Used: Python

Introduction to GenAI

- Large language models
- GenAI landscape
- Simple workflow orchestration demo

Module Break: Mini Project / Simulation Presentations

Module 5: Capstone Project Presentations

Programme Directors

Prof. Shalini Velappan

Assistant Professor, IIM Tiruchirappalli

Shalini Velappan is an Assistant Professor in Finance and Accounting Area at IIM Trichy. Her research and teaching interests include asset pricing, risk management, and financial technology. She has about 8 years of industry experience developing end-to-end analytical solutions across international markets in the banking and automobile domains. She has received several fellowships & awards, such as DAAD, Germany, JRF & SRF from UGC, India, and the President award, Global Diversity Equity & Inclusion award, and Asia Pacific award from Ford Motor Company, amongst many others.

Prof. Venkataraghavan K

Associate Professor, IIM Tiruchirappalli

Dr. Venkataraghavan Krishnaswamy is an Associate Professor in the Information Systems and Analytics Area. He holds a PhD from the Department of Management Studies, Indian Institute of Technology Madras. His research explores the business value of information technology, emerging technologies and their applications, and enterprise information systems. With eight years of industry experience, he previously worked as a Principal Data Scientist at a telecom analytics start-up and as an ERP Package Solution Consultant at IBM and NTT India.

Admission Process

Submit Application
Complete application form to showcase your motivation and goals.

Complete Counselling
Only shortlisted candidates go through the counselling process.

Start Learning
Learn from India's top educators and stand out from the crowd.

Applicant should have basic understanding with spreadsheets, exposure to Mathematics and Statistics, and a positive attitude towards programming tools like Python.

Eligibility: A graduation degree in any stream is required, and applicants from all academic backgrounds are welcome.

Fees Structure

Application Fee (Non-Refundable)	**₹99**

	Option 1	Option 2
	Upfront	**EMI** (Through our NBFC partners)
Secure Seat Fee (Non-Refundable)	₹4,000	₹4,000
Installment 1 (Non-Refundable)	₹40,000*	₹15,589 x 9 months
Installment 2 (Non-Refundable)	₹82,000*	
Total	₹126,000*	₹144,301*

Note: All fees are non-refundable.
**GST at 18% extra, as applicable*

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