

INTERNET OF THINGS (IOT) IN BANKING & FINANCE

"Leverage IoT for Smarter Operations, Enhanced Risk Management, and Customer-Centric Innovation in Financial Services"

Schedule

Date	Venue	Fees (Face-to-Face)
09 - 13 Feb 2026	Dubai - UAE	USD 3495 per delegate

Introduction

The Internet of Things (IoT) is transforming the financial services sector by enabling real-time data collection, intelligent decision-making, and personalized customer experiences. From smart ATMs and connected payment devices to predictive maintenance and contextual banking, IoT is enhancing operational efficiency, security, and service delivery across banks, insurers, and fintech providers.

This 5-day course explores the strategic, technical, and regulatory dimensions of IoT in the financial sector. Participants will gain hands-on insights into IoT architecture, risk considerations, integration models, and innovative use cases, enabling them to evaluate, plan, and lead IoT initiatives within their organizations.

Objectives

By the end of this course, participants will be able to:

- Understand IoT architecture and components relevant to financial applications
- Identify high-impact use cases for IoT in banking, insurance, and payments
- Evaluate security, data privacy, and compliance implications of IoT deployments
- Develop strategies to integrate IoT into digital banking ecosystems
- Use IoT for customer engagement, fraud detection, and asset monitoring
- Align IoT projects with business goals, risk appetite, and technology roadmaps

Why Attend

- Gain a clear understanding of how IoT is shaping the future of financial services
- Discover new opportunities for automation, cost reduction, and customer value
- Learn practical strategies for managing the risks of connected devices and data flows
- Benchmark IoT use across financial sub-sectors and global markets
- Translate IoT potential into business transformation and product innovation

Target Audience

This program is designed for:

- Digital transformation leaders and innovation managers in finance
- CIOs, CTOs, and technology architects in banking and insurance
- Product and operations managers exploring connected solutions
- Risk, compliance, and cybersecurity professionals
- Fintech entrepreneurs and consultants focused on IoT adoption

Individual Benefits

Key competencies that will be developed include:

- Technical literacy in IoT devices, networks, and platforms
- Business case development for IoT investments
- Understanding of IoT risk, governance, and regulatory obligations
- Capability to design customer-centric IoT experiences
- Strategic thinking in digital ecosystems and partnerships

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational efficiency and real-time process visibility
- More robust fraud prevention and security monitoring
- New revenue models based on data and IoT-enabled services
- Stronger customer engagement through personalized, context-aware services
- Compliance with emerging digital and data governance regulations

Instructional Methodology

The course applies a blended, interactive approach:

- Executive Briefings - IoT frameworks, architecture, and industry use cases
- Case Studies - Global IoT implementations in banking and insurance
- Workshops - Strategy mapping, device risk analysis, and deployment design
- Peer Exchange - Cross-industry comparisons and collaborative problem-solving
- Tools - IoT business model canvas, security checklist, and integration templates

Course Outline

DETAILED 5-DAY COURSE OUTLINE

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: Foundations of IoT and Financial Applications

- Module 1: Introduction to IoT in Financial Services (07:30 - 09:30) • IoT architecture, sensors, edge computing, and data flow • Evolution and future of IoT in banking and finance
- Module 2: IoT Use Cases in Finance (09:45 - 11:15) • Smart ATMs, connected branches, wearables, and payment tokens
- Module 3: IoT in Insurance and Wealth Management (11:30 - 01:00) • Usage-based insurance, behavioral pricing, asset monitoring
- Module 4: Workshop - Identifying IoT Opportunities (02:00 - 03:30) • Participants map IoT ideas within their business areas

Day 2: IoT Platforms, Architecture & Data Integration

- Module 1: Devices, Networks & Communication Protocols (07:30 - 09:30) • RFID, NFC, BLE, LPWAN, 5G in financial services
- Module 2: IoT Data Platforms and Integration Models (09:45 - 11:15) • Cloud, on-prem, hybrid - data lakes and real-time analytics
- Module 3: APIs and Interoperability (11:30 - 01:00) • Ensuring compatibility across vendors and internal systems
- Module 4: Workshop - IoT System Blueprinting (02:00 - 03:30) • Teams design a system flow for a sample IoT use case

Day 3: Security, Privacy & Compliance

- Module 1: IoT Cybersecurity Threats and Countermeasures (07:30 - 09:30) • Endpoint protection, encryption, and anomaly detection
- Module 2: Data Privacy, Consent & Governance (09:45 - 11:15) • GDPR, PCI-DSS, and local regulatory frameworks
- Module 3: Risk Management for Connected Financial Services (11:30 - 01:00) • Vendor risk, data breach scenarios, and mitigation plans
- Module 4: Workshop - Risk Analysis & Compliance Planning (02:00 - 03:30) • Teams perform a risk assessment on an IoT financial deployment

Day 4: Business Models and Strategy Alignment

- Module 1: Monetizing IoT in Banking and Insurance (07:30 - 09:30) • Data-as-a-Service, contextual marketing, dynamic pricing
- Module 2: Partner Ecosystems and Platform Strategy (09:45 - 11:15) • Collaborating with telcos, tech vendors, and FinTech startups
- Module 3: IoT Project Governance and KPIs (11:30 - 01:00) • Success metrics, ROI models, and stakeholder reporting
- Module 4: Workshop - Business Case Development (02:00 - 03:30) • Teams prepare and present an IoT initiative proposal

Day 5: Innovation, Trends & Implementation Planning

- Module 1: The Future of IoT - AI, Blockchain, and Smart Contracts (07:30 - 09:30) • Convergence with emerging technologies and regulatory innovation
- Module 2: Implementation Roadmap & Scalability Considerations (09:45 - 11:15) • Pilots, scale-up strategies, and integration into enterprise architecture
- Module 3: Final Case Study - IoT in Digital Banking (11:30 - 01:00) • Review and critique of a real-world banking IoT implementation
- Module 4: Final Presentations & Strategy Wrap-Up (02:00 - 03:30) • Participants present roadmaps for an IoT use case in their organization

Certification

Participants will receive a Certificate of Completion in IoT in Banking & Finance, confirming their knowledge of IoT strategy, implementation, and risk management within financial environments.

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