MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

THE INTERNET OF THINGS (IOT) IN EDUCATION

"Harnessing IoT to Transform Learning Environments, Operations, and Student Engagement"

Schedule

Date	Venue	Fees (Face-to-Face)
16 – 20 Nov 2026	London – UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

The Internet of Things (IoT) is revolutionizing the education sector by enabling smart classrooms, personalized learning, and data-driven decision-making. From interactive whiteboards and connected devices to campus energy management and student safety systems, IoT offers transformative potential for both learning outcomes and institutional efficiency.

This comprehensive course explores how IoT technologies can be implemented and managed within educational institutions. Participants will gain practical insights into device integration, data analytics, cybersecurity, and the pedagogical opportunities offered by IoT-enabled environments.

Objectives

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

- Understand the fundamentals and architecture of IoT in the education sector
- Explore practical applications of IoT in classrooms, libraries, and campuses
- Plan and manage IoT implementations to enhance teaching, learning, and operations
- Analyze IoT data for improving student engagement and institutional performance
- Address privacy, security, and ethical concerns related to connected learning

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Why Attend

- Discover how IoT is redefining education delivery and infrastructure management
- Gain technical and strategic skills for IoT project planning and deployment
- Identify use cases that support active learning, smart assessment, and student safety
- Learn how to evaluate ROI and sustainability of IoT in education
- Keep pace with global education technology trends and innovation

Target Audience

This program is designed for:

- School, college, and university administrators
- IT and digital transformation leaders in education
- Instructional designers and curriculum developers
- Education policymakers and planners
- Facilities and operations managers in academic institutions

Individual Benefits

Key competencies that will be developed include:

- Understanding IoT platforms, sensors, and data flows in education
- Smart campus design and connected classroom integration
- Data interpretation for academic and administrative decision-making
- Security and governance of connected educational environments
- Strategic planning for scalable and cost-effective IoT deployment

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved digital infrastructure and learning environment optimization
- Enhanced student outcomes through personalized, data-driven education
- Efficient energy, space, and asset management on campuses
- Better safety, monitoring, and operational intelligence in institutions
- Increased innovation in teaching delivery and institutional strategy

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Smart education models, IoT systems, and technology frameworks
- Case Studies – Examples of successful IoT deployments in schools and universities
- Workshops – Use case design, data analytics exercises, and implementation planning
- Peer Exchange – Cross-sector insights on EdTech integration and challenges
- Tools – Frameworks for planning, risk assessment, data privacy, and performance monitoring

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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: Introduction to IoT and Smart Education

- Module 1: IoT Fundamentals and Components (07:30 – 09:30) • Sensors, actuators, networks, platforms, and analytics • Architecture and ecosystem of IoT systems
- Module 2: The Evolution of Smart Education (09:45 – 11:15) • Digital transformation in learning and institutional operations • Use cases: connected classrooms, digital campuses
- Module 3: Workshop – IoT Readiness Assessment (11:30 – 01:00) • Assess institutional maturity for IoT adoption
- Module 4: Peer Exchange – Challenges in Educational Technology (02:00 – 03:30) • Group sharing of current infrastructure, gaps, and aspirations

Day 2: IoT in Teaching, Learning, and Curriculum Design

- Module 5: Connected Classrooms and Learning Environments (07:30 – 09:30) • Smartboards, wearable devices, and AR/VR integration • Personalized learning paths and student tracking
- Module 6: IoT in Assessments and Feedback (09:45 – 11:15) • Real-time performance analytics • Automated attendance, progress monitoring, and feedback loops
- Module 7: Workshop – Design a Smart Learning Use Case (11:30 – 01:00) • Create an IoT-enhanced learning scenario
- Module 8: Case Study – IoT Implementation in K-12 or Higher Ed (02:00 – 03:30) • Success story of connected learning transformation

Day 3: Campus Operations, Safety, and Facility Management

- Module 9: Smart Campus Infrastructure (07:30 – 09:30) • IoT applications in HVAC, lighting, and space utilization • Asset and resource management
- Module 10: Student Safety and Security Systems (09:45 – 11:15) • Surveillance, smart ID cards, emergency alerts
- Module 11: Workshop – Smart Campus Blueprint (11:30 – 01:00) • Plan infrastructure enhancements for IoT deployment
- Module 12: Peer Discussion – Operational Efficiencies with IoT (02:00 – 03:30) • Cost savings and environmental benefits

Day 4: Data Analytics, Integration, and Risk Management

- Module 13: IoT Data Management and Visualization (07:30 – 09:30) • From raw data to actionable insight: dashboards and KPIs
- Module 14: Cybersecurity and Privacy in Education IoT (09:45 – 11:15) • Risks, compliance (GDPR, FERPA), and ethical concerns
- Module 15: Workshop – Privacy Risk Assessment (11:30 – 01:00) • Evaluate potential vulnerabilities in connected systems
- Module 16: Case Study – Data Breach in Smart Campus (02:00 – 03:30) • Incident review and mitigation strategies

Day 5: Strategy, Governance, and Implementation Roadmap

- Module 17: Building a Scalable IoT Strategy (07:30 – 09:30) • Pilot programs, stakeholder buy-in, and budgeting
- Module 18: Vendor Management and Procurement (09:45 – 11:15) • Evaluating solutions, partnerships, and service models
- Module 19: Final Project – Smart Education Implementation Plan (11:30 – 01:00) • Present an IoT roadmap for a school or university
- Module 20: Wrap-Up, Feedback, and Certification (02:00 – 03:30) • Course summary and awarding of certificates

Certification

Participants will receive a Certificate of Completion in The Internet of Things (IoT) in Education, validating their ability to design, manage, and audit smart education initiatives using IoT technologies for enhanced learning and institutional effectiveness.

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Why Choose MAWA Events

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