

INTERNET OF THINGS (IOT) IN IN THE HEALTHCARE INDUSTRY

“Transform Healthcare with Smart Devices and Real-Time Connectivity Through IoT Integration.”

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► **Available delivery methods:** In-House Training

Introduction

The Internet of Things (IoT) is revolutionizing healthcare by enabling real-time patient monitoring, smarter diagnostics, and efficient hospital operations. This hands-on course explores the application of IoT technologies in healthcare settings—focusing on device integration, connectivity, data analytics, and remote care delivery. Participants will gain the knowledge and practical tools to design, implement, and manage secure IoT ecosystems tailored to healthcare needs.

Objectives

- By the end of this course, participants will be able to:
- Understand IoT architecture, components, and data flows in healthcare
 - Identify and evaluate medical-grade IoT devices and platforms
 - Design secure and scalable IoT systems for hospitals and home care
 - Integrate IoT with existing EHR, HIS, and cloud platforms
 - Address privacy, cybersecurity, and regulatory issues in connected health

Why Attend

Healthcare systems increasingly rely on connected devices for real-time monitoring, predictive insights, and automation. This course prepares you to lead IoT-enabled innovation in clinical, administrative, and public health settings.

Target Audience

- Healthcare IT Professionals and Engineers
- Biomedical Technicians and Device Managers
- Hospital Administrators and Innovation Managers
- Digital Health Consultants and Systems Integrators
- Public Health Technologists and Researchers

Individual Benefits

- Acquire hands-on skills in healthcare-specific IoT applications
- Understand industry protocols and communication standards (e.g., HL7, FHIR)
- Improve your ability to contribute to smart hospital projects
- Enhance your profile for roles in digital health and IoT leadership

Organizational Benefits

- Enable cost-efficient, real-time patient monitoring
- Improve hospital asset tracking, medication adherence, and diagnostics
- Enhance clinical decision-making with continuous data streams
- Strengthen cybersecurity and data governance in IoT systems

Instructional Methodology

- Live demonstrations of IoT platforms and devices
- Industry case studies and technical walkthroughs
- Strategy workshops and architecture planning sessions
- Group simulations and guided project exercises

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

- 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 in Healthcare**
- Module 1:** Introduction to IoT and Smart Health (07:30 – 09:30)
 - Module 2:** Key Components – Sensors, Gateways, Networks, Platforms (09:45 – 11:15)
 - Module 3:** Use Cases: Remote Patient Monitoring, Smart Beds, Wearables (11:30 – 01:00)
 - Module 4:** IoT Ecosystem & Market Trends in Healthcare (02:00 – 03:30)
- Day 2: Device Integration and Communication Standards**
- Module 1:** Overview of Medical IoT Devices and Applications (07:30 – 09:30)
 - Module 2:** Communication Protocols: Bluetooth LE, Wi-Fi, LoRaWAN, Zigbee (09:45 – 11:15)
 - Module 3:** Integration with HIS, EHR, and Cloud Services (11:30 – 01:00)
 - Module 4:** Workshop: Designing a Basic IoT Healthcare Network (02:00 – 03:30)
- Day 3: Data Handling and Analytics in IoT**
- Module 1:** Data Acquisition, Storage, and Real-Time Streaming (07:30 – 09:30)
 - Module 2:** Data Analytics and Dashboards for Healthcare (09:45 – 11:15)
 - Module 3:** Predictive Maintenance for Medical Equipment (11:30 – 01:00)
 - Module 4:** Hands-on Session: Using IoT Data for Clinical Decision Support (02:00 – 03:30)
- Day 4: Security, Privacy, and Compliance**
- Module 1:** Cybersecurity Risks in Medical IoT Devices (07:30 – 09:30)
 - Module 2:** Data Privacy Regulations – HIPAA, GDPR, and ISO 27799 (09:45 – 11:15)
 - Module 3:** Device Authentication, Access Controls, and Encryption (11:30 – 01:00)
 - Module 4:** Workshop: Creating a Healthcare IoT Security Framework (02:00 – 03:30)
- Day 5: Deployment and Future Outlook**
- Module 1:** Planning and Deploying Smart Healthcare Solutions (07:30 – 09:30)
 - Module 2:** IoT Project Management and Vendor Selection (09:45 – 11:15)
 - Module 3:** Emerging Technologies: Edge AI, Digital Twins, 5G (11:30 – 01:00)
 - Module 4:** Final Project Presentations, Certification Wrap-Up, and Next Steps (02:00 – 03:30)

Certification

Participants will be awarded a **Certificate in IoT in the Healthcare Industry** upon successful course completion, including active participation and final project assessment. This certificate affirms your capability to plan, manage, and optimize IoT integration in healthcare environments.

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