

Internet of Things–Business Perspectives

Duration 2 Days

COURSE DESCRIPTION

The Internet of Things –Business Perspectives course provides an overview and insight into the emerging technology.

The course covers the basic concepts, terminology, and key components of IoT. It explains the business perspectives of IoT including the advantages of early adoption and monetization models. It further expands on the technologies enabling IoT and the various challenges to expect. Several scenarios describe the use cases and applications of IoT that result in smart applications and services to inspire organizations making the move to IoT. The course provides future insights in IoT and forecasts the status of the connected world in 2020.

This interactive and thought provoking course includes:

- Group discussions
- Lab activities to allow you to experience IoT applications: These are in-class lab exercises which will allow participants to experience IoT applications.
- Case scenarios around IoT
- Module End Questions

COURSE OBJECTIVES

Course participants will be able to understand the:

- Concepts and terminologies of IoT.
- New devices and interfaces that are driving IoT growth.
- Business perspectives of IoT (advantages of early adoption of IoT technologies).
- Implications of IoT for your business.
- Role of enabling technologies for IoT, such as cloud computing and Big Data.
- Security and governance issues with IoT.
- Future growth opportunities of IoT in the coming years.

COURSE AGENDA

- Course Introduction
- Concepts and Terminologies
- Business Orientation
- Basic Building Blocks of IoT – Architecture
- Enabling Technologies of IoT + Lab Activities
- IoT Security and Top Governance Issues
- IoT Case Studies and Future Predictions

COURSE OUTLINE

Concepts and Terminologies

- Introduction: Internet, Things, and IoT
- IoT Types, History and Evolution of IoT
- Cyber-Physical Systems and Differences Among IoE, M2M, and IoT
- Facts and Figures Around IoT and IoT Application Areas

Business Orientation

- Drivers of IoT
- Benefits of a Connected World
- IoT Business: Opportunities, Benefits, and Challenges
- IoT Monetization Strategies and Models

Basic Building Blocks of IoT–Architecture

- Architecture of IoT Components
- Network Protocols Within IoT

Enabling Technologies of IoT + Lab Activities

- Role of Social Media and Mobility in IoT
- Defining SMICT
- Role of Big Data and Analytics in IoT
- Role of Cloud Computing in IoT

IoT Security and Top Governance Issues

- IoT Security Challenges
- Causes of IoT Security Breaches
- IoT Security Risks

IoT Case Studies and Future Predictions

- IoT Usage Scenarios
- IoT Growth Perspectives
- IoT Future Predictions

PREREQUISITES

Basic knowledge of Internet concepts (Difference between Internet and Web, URL, Http/Https, DNS, etc.), Cloud Computing characteristics, Big Data concepts, Networking concepts (LAN/WAN/MAN, routers, protocols, topologies, etc.)

Recommended: Completion of the following courses:

- Cloud Technology Associate (CTA)
- Big Data Foundation

WHO SHOULD ATTEND

The Internet of Things–Business Perspectives course is most interesting for business and management professionals, including:

- C - Level Executives and Senior Management
- General Managers including Business Development Managers (Marketing, Sales)
- IT Project & Programme Management, Risk Management and IT Service Management
- Business Analysts, Marketing and Sales Executives
- Entrepreneurs and Investors
- Consultants, Professionals in IT service related fields