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Moving to 5G Lifestyle

FA-0497 · 5 hours

DevOps, Cloud & Infrastructure

Introduction

The advent of 5G technology is transforming the way we live and work. This course explores the impact of 5G on our daily lives, how it works, and how it digitizes our everyday tasks.

Course Duration : 1.5 hours

Prerequisites

- Basic Technology Literacy
- Internet Access

Learning Outcome:

- Understand the fundamental principles and capabilities of 5G technology.
- Describe how 5G is transforming daily life, including faster internet, improved connectivity, and enhanced digital experiences.
- Identify practical applications of 5G in healthcare, smart cities, and Industry 4.0.
- Recognize the digitization of daily tasks enabled by 5G, such as smart homes, virtual assistants, and contactless transactions.
- Discuss privacy and security considerations associated with 5G technology and IoT devices.
- Evaluate the challenges and opportunities of 5G adoption, including infrastructure gaps and affordability.
- Explore emerging trends and the future of 5G technology and connectivity.

Training outline

1. Introduction to 5G Technology

1. Understanding the evolution from 4G to 5G
2. Key features and capabilities of 5G networks
3. The global rollout of 5G infrastructure

2. 5G in Daily Life: Transforming Connectivity

1. Ultra-fast internet speeds and low latency
2. Seamless streaming and gaming experiences
3. Enhanced augmented reality (AR) and virtual reality (VR)
4. Real-time communication and collaboration

3. 5G Applications in Healthcare

1. Telemedicine and remote patient monitoring
2. Advancements in surgical procedures
3. Wearable health tech and data analytics
4. Improving healthcare accessibility

4. 5G and the Smart City

1. Transforming urban infrastructure and transportation
2. IoT (Internet of Things) and smart sensors
3. Energy-efficient city planning
4. Enhancing public safety and security

5. 5G and Industry 4.0

1. The role of 5G in the Fourth Industrial Revolution
2. Smart factories and automation
3. Supply chain optimization
4. Real-time data analytics and decision-making

6. Digitization of Daily Tasks with 5G

1. The smart home and IoT devices
2. 5G-powered virtual assistants
3. Mobile payments and contactless transactions
4. Smart agriculture and farming practices

7. 5G Privacy and Security Considerations

1. Data protection and encryption
2. Safeguarding IoT devices
3. Privacy challenges and regulatory frameworks
4. Best practices for maintaining cybersecurity

8. 5G Adoption Challenges and Future Trends

1. Addressing infrastructure gaps and affordability
2. 5G's role in bridging the digital divide
3. Emerging trends in 5G technology and applications
4. The future of connectivity and digitization