BLACKBIRD FOR TRAINING

Advanced 5G Systems and Telecommunications Leadership

15 – 19 February 2027
Düsseldorf (Germany)



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Introduction

This course focuses on advanced 5G technologies and their profound impact on the telecommunications industry. Participants will explore the latest developments in 5G network systems and learn how to lead in a rapidly evolving telecommunications environment. The course delves into the technical aspects of 5G systems, including network architecture and implementation, while also offering leadership strategies to manage teams and projects in this high-tech sector. By the end of this course, you will acquire both the technical knowledge and leadership skills necessary to excel in the global telecommunications industry, particularly in the transformative realm of 5G technology.

Course Objectives

- Understand the core principles of 5G technology and its evolution in the telecommunications industry.
- Learn about the architecture and components of 5G networks, including 5G system information and network slicing.
- Explore the technical challenges in deploying and managing 5G network systems.
- Develop strategies for managing 5G projects and telecom teams effectively.
- Gain knowledge of the role of 5G in enabling IoT, smart cities, and enhancing telecommunications equipment.
- Study the impact of 5G on data traffic management and network efficiency.
- Understand the regulatory and security considerations in 5G system deployments.
- Learn how to lead telecommunications teams in a fast-paced, evolving industry.
- Explore business strategies for maximizing the potential of 5G network systems and driving growth in the telecommunications management landscape.
- Gain practical insights into future trends in telecommunications leadership, particularly in the context of 5G.



Course Outlines

Day 1: Introduction to Advanced 5G Systems and Technologies

- Understand the evolution of mobile networks from 2G to 5G systems.
- Learn about the key features and capabilities of 5G technology.
- Explore the architecture of 5G networks, including RAN and core network components.
- Analyze the role of frequency spectrum in 5G system performance.
- Discuss the impact of 5G on mobile broadband, low latency, and high capacity.
- Explore real-world applications and use cases for 5G across various industries.

Day 2: Advanced 5G Network Design and Architecture

- Study the key building blocks of 5G architecture and design.
- Understand network slicing and its importance for customizing 5G services.
- Dive into virtualized and cloud-native 5G infrastructure.
- Learn how to design and deploy ultra-reliable, low-latency communication URLLC within 5G networks.
- Understand the importance of edge computing in enhancing 5G system capabilities.
- Discuss network densification and the role of small cells in 5G deployment.
- Dive into 5G core functions like service-based architecture SBA and mobile edge computing MEC.

Day 3: Leadership in Telecommunications and Managing 5G Deployments

- Develop leadership skills specific to managing advanced telecom projects.
- Learn how to lead multi-disciplinary teams in the 5G ecosystem.
- Explore project management best practices for deploying 5G systems.
- Understand the role of strategic decision-making in 5G adoption and expansion.
- Discuss the challenges and opportunities in deploying 5G systems in urban and rural areas.
- Learn how to balance cost, quality, and time in 5G network rollouts.
- Gain insights into the organizational changes required to embrace 5G technology.

Day 4: Security, Regulatory, and Ethical Considerations in 5G Networks

- Understand the key security challenges in 5G networks.
- Explore privacy concerns related to 5G's increased data transmission and IoT.
- Learn about the regulatory frameworks governing 5G deployment globally.
- Discuss cybersecurity strategies for 5G and protecting critical infrastructure.
- Examine the ethical implications of widespread 5G technology in society.
- Understand the importance of standardization and collaboration within the 5G ecosystem.
- Study the role of government bodies and telecommunications regulatory agencies in 5G adoption.



Day 5: The Future of 5G and Telecommunications Leadership

- Explore emerging trends in 5G technology and the future of wireless technologies.
- Learn how 5G is driving the development of smart cities, autonomous vehicles, and IoT.
- Understand the evolving role of telecom leaders in a 5G-dominated world.
- Examine business models for monetizing 5G technologies and services.
- Explore strategies for managing 5G growth and scalability in diverse markets.
- Discuss the potential for 5G to drive economic growth and innovation globally.
- Reflect on the leadership skills needed to navigate future telecom challenges.

Why Attend This Course: Wins & Losses!

- Gain in-depth knowledge of 5G technologies and their impact on global telecommunications industries.
- Develop leadership skills tailored to managing 5G network systems and large-scale telecommunications projects.
- Learn how to design, optimize, and secure advanced 5G systems to stay ahead in the telecom sector.
- Understand the strategic decisions needed to lead 5G transformation projects and drive innovation in telecommunications.
- Build expertise in 5G architecture, network slicing, and edge computing within 5G networks.
- Enhance your ability to manage multi-disciplinary teams in telecom projects.
- Stay ahead of the competition by mastering the future of telecommunications and 5G technologies.
- Understand the regulatory, ethical, and security considerations essential to 5G network deployment.
- Gain practical insights on monetizing 5G services and expanding business models in telecommunications.
- Be prepared for the next phase of innovation in wireless communications with 5G technology.

Conclusion

By the end of the course, you will possess the in-depth knowledge and leadership skills needed to manage and direct advanced telecom projects based on 5G technology. You will be equipped to make strategic decisions, lead multi-disciplinary teams, and successfully deploy 5G networks. Prepare yourself to be a leader in the 5G era, which opens new horizons for innovation and development in the telecommunications industry, enhancing both the technology and the services offered across industries worldwide.

