

Course Name

Next Generation Wireless Networks

Sector Name

Information Technology

Document Type

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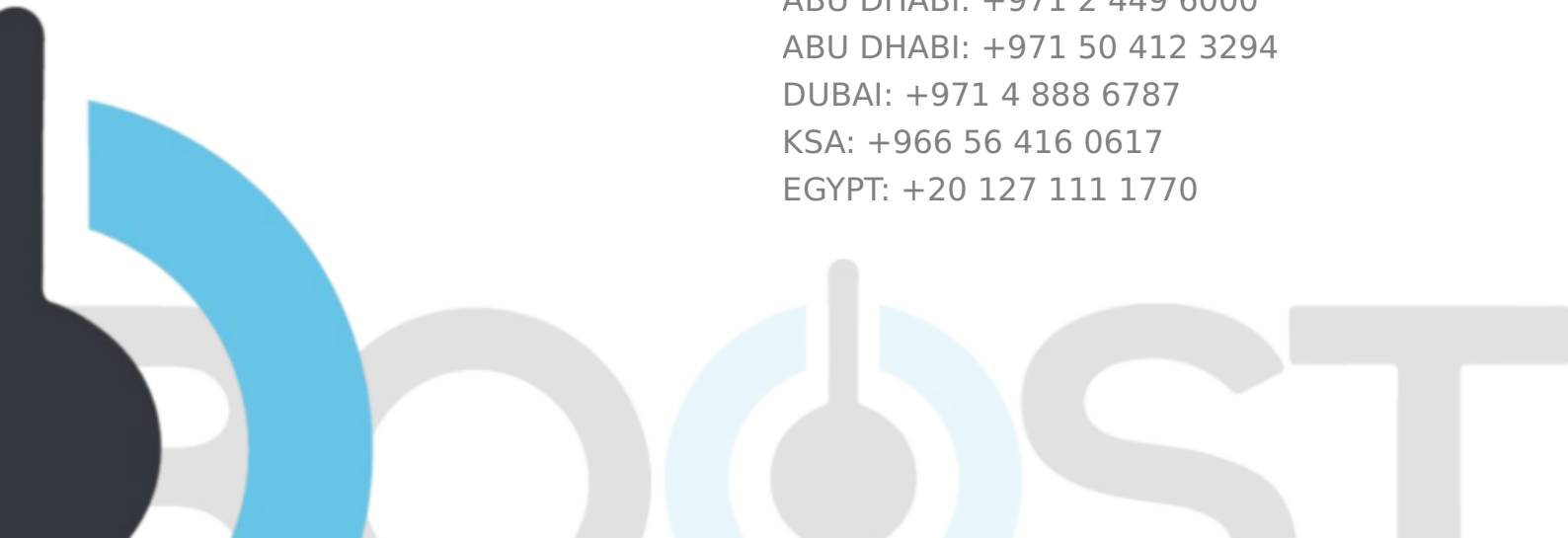
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Next Generation Wireless Networks

Course Introduction

The Next Generation Wireless Networks course is designed to provide learners with advanced knowledge of modern wireless communication technologies and the evolution of next-generation mobile and data networks. As global demand for high-speed connectivity, smart devices, and digital transformation continues to grow, next-generation wireless systems play a critical role in enabling future communication infrastructure.

This course focuses on the fundamentals of 5G networks, wireless communication systems, network architecture, spectrum management, and mobile communication technologies. Participants will learn how next-generation wireless networks deliver faster speeds, lower latency, improved reliability, and greater network capacity compared to traditional communication systems.

The program also covers important concepts such as Internet of Things (IoT) connectivity, cloud networking, edge computing, software-defined networking (SDN), and network virtualization. Learners will understand how modern wireless technologies support smart cities, autonomous vehicles, industrial automation, and digital transformation initiatives.

In addition, the course explores wireless security, radio access technologies, network optimization, and the operational challenges associated with large-scale wireless infrastructure deployment. Participants will gain practical insights into wireless protocols, signal

transmission, and performance management in advanced telecommunications environments.

The course also highlights the future evolution of wireless technologies, including 6G research, artificial intelligence in networking, and intelligent communication systems. Learners will understand how telecom operators and technology companies are transforming global connectivity through innovation and advanced wireless solutions.

This course is ideal for telecommunications engineers, network engineers, IT professionals, wireless technology specialists, and individuals interested in modern communication systems and future networking technologies.

By completing this course, participants will develop strong technical knowledge of wireless network architecture, next-generation communication systems, and emerging trends shaping the future of global telecommunications.

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Target Audience

- ✓ Cloud Computing Engineer
- ✓ Computer Network Specialist
- ✓ Computer Support Specialist
- ✓ Database Administrator
- ✓ Information Technology Analyst
- ✓ Information Technology Leadership
- ✓ Information Security Specialist
- ✓ Software/Application Developer
- ✓ Web Developer
- ✓ Technology sales consultant

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Learning Objectives

- ✓ Gain a comprehensive understanding of LAN, PAN, and BAN wireless technologies, including their fundamental principles, similarities, and distinctions.
- ✓ Distinguish between the characteristics and functionalities of 802.15.1, 802.15.4, 802.15.6, and 802.11 wireless standards, and comprehend the intricacies of 802.11.
- ✓ Develop a clear comprehension of various wireless technologies like RFID, Bluetooth, and Zigbee, and effectively differentiate between their features and applications.
- ✓ Acquire knowledge about essential aspects of 802.11, including modulation, coding, and
- ✓ Other relevant components.
- ✓ Investigate different 802.11 scenarios, configurations, and requirements, while also exploring potential future advancements in this wireless technology.

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Course Outline

✓ Day 01

Wireless, 5G, and IEEE 802.11

- ✓ Fixed and wireless trends, applications, and uses
- ✓ Assorted current and future technologies
- ✓ The next wireless generation technology
- ✓ IEEE 802.11 summary (including protocol)

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Course Outline

✓ Day 02

802.11 Continuation, Including 802.11 Variations

- ✓ 802.11k/r/w/z/v/u/s/p/ad/ax/y/z
- ✓ 802.11 technologies, frequencies, channels, and bands
- ✓ 802.11an/ac
- ✓ 802.11ax
- ✓ Modulation, function blocks, and power save initiatives

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Course Outline

✓ Day 03

802.11 Standardization and Basics

- ✓ REVMc/Location, Bluetooth, GPS
- ✓ Practical considerations, location, and models
- ✓ Neural networks
- ✓ 802.11ay
- ✓ License-exempt operation
- ✓ EDMG (incorporating security, formatting, and channelization)

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Course Outline

✓ Day 04

802.11 Continuation and 5G

- ✓ 802.11ah
- ✓ Radio Frequency principles for specific bands
- ✓ Progressive evolution, from 3 G to 5G
- ✓ Tight and Loosely Interacting New Radio Access
- ✓ Technology
- ✓ LTE and 5G exist together
- ✓ What does the future hold

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Course Outline

✓ Day 05

5G Continuation

- ✓ How does all of this fit in with the Internet of Things?
- ✓ Driving forces and their influence on the technology
- ✓ Safety and other aspects that need to be considered
- ✓ What is required to put a 5G system in place, and what are the aspects that require consideration?
- ✓ Legal aspects pertaining to 5G installations
- ✓ Transmission considerations

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
May 24, 2027	May 28, 2027	5 days	4950.00 \$	Austria , Vienna
Sept. 6, 2027	Sept. 10, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Dubai

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