

Satellite Communication Systems & IP in Modern Networks

Telecom Engineering
Cairo (Egypt)
19 - 23 Oct 2025

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Satellite Communication Systems & IP in Modern Networks

Ref: 3283_128965 **Date:** 19 - 23 Oct 2025 **Location:** Cairo (Egypt) **Fees:** 3300 **Euro**

Course Description

This comprehensive 5-day course explores advanced satellite communication systems and their integration with modern IP networks. Participants will gain in-depth knowledge of satellite technology, network design, and IP protocols in satellite communications. The course covers key concepts, practical applications, and emerging trends in the field.

Learning Objectives

- Understand the fundamentals of satellite communication systems and their components
- Design and analyze satellite networks for optimal performance
- Implement IP networking protocols in satellite communication systems
- Evaluate and troubleshoot satellite network issues
- Apply best practices for integrating satellite technology with modern IP-based networks

Course Modules

Day 1: Introduction to Satellite Communication Systems

- Overview of satellite communication principles
- Satellite orbits and coverage areas
- Frequency bands and signal propagation
- Satellite network architectures

Day 2: Satellite Network Design and Analysis

- Link budget calculations
- Modulation and coding techniques
- Multiple access methods FDMA, TDMA, CDMA
- Network performance optimization

Day 3: IP Networking in Satellite Communications

- IP protocol suite overview
- Routing and addressing in satellite networks
- Quality of Service QoS considerations
- TCP performance over satellite links

Day 4: Advanced Satellite Technologies

A graphic featuring the text 'UK Training PARTNER' in black, with 'PARTNER' in a larger, bold font. The background shows a chessboard with several chess pieces (a king, a queen, and a pawn) and concentric circles radiating from behind the king piece.

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- High-throughput satellites HTS
- Software-defined satellites
- Intersatellite links and constellations
- Emerging LEO satellite networks

Day 5: Integration and Applications

- VSAT systems and implementations
- Satellite-terrestrial network integration
- Cybersecurity in satellite communications
- Case studies and practical applications

Practical Wins for Participants

- Ability to design and optimize satellite communication networks
- Proficiency in implementing IP protocols in satellite systems
- Skills to troubleshoot and resolve satellite network issues
- Knowledge to integrate satellite technology with modern IP-based networks

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