

Satellite Communication Systems Planning & Coordination

Telecom Engineering
Rome (Italy)
03 - 07 Nov 2025

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Satellite Communication Systems Planning & Coordination

Ref: 3284_131942 **Date:** 03 - 07 Nov 2025 **Location:** Rome (Italy) **Fees:** 4200 **Euro**

Course Description

This intensive 5-day course provides a comprehensive overview of satellite communication systems planning and coordination. Participants will gain in-depth knowledge of satellite technology, network design principles, regulatory frameworks, and best practices for implementing and managing satellite communication systems.

Learning Objectives

- Understand fundamental concepts of satellite communication systems
- Master techniques for planning and designing satellite networks
- Learn regulatory requirements and coordination procedures
- Develop skills in performance optimization and troubleshooting
- Gain practical experience through hands-on exercises and case studies

Course Modules

Day 1: Introduction to Satellite Communication Systems

- Satellite orbits and space segment basics
- Ground segment components and architecture
- Frequency bands and link budgets
- Modulation and multiple access techniques

Day 2: Satellite Network Planning and Design

- Network topology and architecture
- Capacity planning and traffic engineering
- Coverage analysis and footprint optimization
- Link budget calculations and fade margin

Day 3: Regulatory Framework and Coordination Procedures

- ITU regulations and frequency allocation
- Coordination process and interference analysis
- Licensing requirements and documentation
- International and regional regulatory bodies

Day 4: Implementation and Performance Optimization

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- Earth station installation and commissioning
- Network management systems and monitoring
- Quality of Service QoS parameters
- Troubleshooting and fault management

Day 5: Emerging Technologies and Future Trends

- High-throughput satellites HTS and LEO constellations
- Software-defined satellites and virtualization
- Integration with 5G and IoT networks
- Case studies and practical exercises

Practical Wins for Participants

- Ability to design and plan satellite communication networks
- Proficiency in regulatory compliance and coordination procedures
- Skills to optimize performance and troubleshoot satellite systems
- Understanding of emerging trends and technologies in the industry

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight behind it. In the background, there are concentric circles representing a signal or a network.

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