

Bluetooth Technology

מספר הקורס: 4060
משך הקורס: יום אחד (8 שעות)

Agenda

Introduction to Bluetooth

- Bluetooth standards and versions
- Bluetooth SIG and Bluetooth certification
- Basic architectures: P2P, Piconets, Scatternets
- Bluetooth applications

The Channel and the Bluetooth Radio

- Large scale path loss, indoor propagation
- Bluetooth range calculations
- Fading, multipath, and interference on the Bluetooth channel
- Frequency hopping spread spectrum
- Modulation types used in Bluetooth
- Bluetooth transmitter and receiver specifications
- The ISM (unlicensed) band, frequencies, frequency hopping

Baseband Signaling

- Packet structure and addressing
- SCO and ACL links
- Master/slave timing and data rates
- Searching for and paging other Bluetooth units
- Inquiry, pairing
- Low power modes (snif, hold)
- Hop sequence selection

Bluetooth Protocols

Bluetooth Profiles and Usage models

Wi-Fi and Bluetooth Coexistence

Bluetooth testing

- Bluetooth Radio Transmitter Tests
- Bluetooth Radio Receiver Tests

AMP- (Alternative MAC- PHY) the future Bluetooth Standard HS 3.0