TELECOMMUNICATION SYSTEMS

CORE CURRICULUM (3rd year)

- Electronics for Radiocommunication: RF devices and transceivers, signal synthesis
- High Frequency Technologies: microwave devices and transceivers, CAD tools, measurement
- Optical Communications and Photonics: optical fiber, photonics, optical networks
- Radio Communication Systems: antennas, propagation, link budget
- Digital Signal Processing: DFT, filters, statistical DSP

CORE CURRICULUM (4th year)

- Digital Communications: synchronization, equalization, coding, multicarrier modulation
- Spectrum Management: regulation, planning, enforcement
- Radio Signals Detection: radar, remote sensing, navigation, radio identification

ELECTIVE COURSES

- Bioengineering Fundamentals: Biomedical signals, diagnosis
- Quantum Technologies for Communications: Quantum optics, quantum communication and networks
- Real-Time DSP: arquitectures, practical time and frequency implementations
- Aerospace Systems Engineering: Orbits, space/ground/user segments, systems engineering

CAREER PATHS


Space Industry


Quantum Tech


Mobile Communications


Intelligent Connectivity


Automotive Systems


Earth Observation


Health


Chip manufacturing