

Mobiles networks and wireless networks



ECTS
6 crédits



Hourly volume
55h

Introducing

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):
Mobile networks and wireless networks functioning and deployment principles and their communication and network architecture

The student will be able to:

- understand the cellular architecture of mobile and wireless networks
- design and deploy a mobile cellular network
- handle the communication and network architecture of mobile networks, the roaming and handover principles
- master the radio access network (RAN) and its impact on the design of the whole network architecture
- understand the information transmission (voice, data, multimedia) in mobile and wireless network
- understand the energy management and the principles to adapt the emission power in wireless and mobiles networks
- identify the specificity of wireless local and personal networks and their effects on the network architecture
- handle the main functioning principles of local and personal wireless networks
- design and deploy an enterprise local wireless network

Necessary prerequisites

Telecommunication and Network classes

Practical info

Location(s)

 Toulouse