

# Mobile transmission systems



Component  
Institut  
universitaire de  
technologie (IUT  
1)

- > **Teaching language(s):** French
- > **Open to exchange students:** Yes

## Presentation

### Description

Understand and implement cell phone networks

To be able: To understand the functioning of wireless cellular networks (GSM / GPRS / EDGE, UMTS, LTE), To understand the structure of networks and layers of protocols, To participate in the installation of such networks, To participate in the configuration of such networks, to participate in the management of such networks.

Program :

- General information on radio transmissions (antennas)
- Introduction to cellular radio communications
- Introduction to the GSM-physical layer
- Software structure and GSM procedures
- GPRS / EDGE mobile internet
- CDMA spread spectrum radio communications
- OFDM radio communications
- Introduction to 3G - UMTS
- Introduction to 4G - LTE

Keywords: Cellular mobile radio communications, GSM, GPRS, EDGE, UMTS, CDMA, OFDM, LTE, Mobile networks, Internet, Network Security, Mobile Terminal station)

## Useful info



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## Place

› Grenoble

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## Campus

› Grenoble - University campus