

COMMUNICATIONS LABORATORY (5 ECTS, S2 93001386):

1. Evaluation of the effects of multipath propagation, the Doppler effect and radio channel dispersion on signals transmitted in mobile links.
2. Radio interface in mobile communications networks.
Measurement and characterisation of the main technical parameters of downlink and uplink links.
3. Experimental characterisation of the coverage and quality of wireless network deployments using Wi-Fi technology.
4. Characterisation of OFDM signals.
5. Characterisation of DVB-T.
6. Study of technical factors (e.g. motion-to-photon latency, resolution, etc.) in remote communication and interaction environments.
7. Evaluation, using subjective tests and objective metrics, of the impact of these technical factors on the quality of the user experience.
8. Practical sessions for each topic