Advanced front-end design for communication, location and navigation systems.
Basic contents of the course are: Networking and updating of reference codes in the space and time domains, multi-channel architectures, acquisition and monitoring, super-resolution.

Learning objectives of the subject

Study load
230632 - ARRAYS - Array Processing and Smart Antennas

### Content

1. **Introduction (6 hours)**
   - Degree competences to which the content contributes:

2. **Beamforming (14 hours)**
   - Degree competences to which the content contributes:

3. **Detection and estimation of arrival angle (8 hours)**
   - Degree competences to which the content contributes:

4. **Adaptive beamforming (7 hours)**
   - Degree competences to which the content contributes:

5. **Tx-Rx Array processing (10 hours)**
   - Degree competences to which the content contributes:

### Qualification system

- Final Examen: 60%
- Participation and class assistance: 40%

### Bibliography

### Others resources: