

ARCHITECTURE OF INTEGRATED RADIO SYSTEMS

ECTS credits : 3

Period : year 2, semester 1

Objectives:

Analysis and design of radio systems that can be integrated on Silicon.
Basics, system calculation, architecture that can be integrated, existing systems.

Contents:

Basics:

- radio path,
- modulations,
- multiple access,
- frequency translation,
- NF/IP3.

RF Architectures :

- superheterodyne,
- zero IF,
- near zero IF,
- software defined radio.

Prerequisites:

Basics of radio blocks