

COURSE NAME			
<b>Circuit Design for RF Front-End</b>			
CREDITS	6 ECTS	TYPE	Elective
SCHEDULING	2nd Term	CHARACTER	Theoretical-Practical

### CONCISE COURSE CONTENTS

- Technologies and fundamentals for RF design.
- Blocks for RF front-end.
- Generation of carrier signals.
- Intermediate-Frequency/BaseBand (IF/BB) Circuitry.

### LEARNING OBJECTIVES

- Know how to design fundamental building blocks for RF front-end in order to meet prescribed specifications.
- Know how to model the main non-idealities of RF circuits at system level and their impact on the systems where they are integrated.
- Get to know general-purpose and specific CAD tools for the design of front-end RF blocks.
- Get to know the problems associated with the experimental characterization of RF circuits.

### LEARNING ACTIVITIES

- Online theoretical-lectures classes.
- Practical classes and/or exercises: tutorials, resolution of selected problems and practical work.

### EVALUATION SYSTEM

- Assimilation of concepts: on-going evaluation supported by exercises and problems.
- Evaluation of capacities: practical cases with optional individual online presentation.
- Examinations.