

COURSE NAME			
Design Methodologies and CAD Tools			
CREDITS	6 ECTS	TYPE	Compulsory
SCHEDULING	1st Term	CHARACTER	Theoretical-Practical

CONCISE COURSE CONTENTS
<ul style="list-style-type: none"> • Design flows for digital, analog and mixed-signal circuits. • Tools for description, synthesis and verification of digital, analog and mixed-signal circuits.

LEARNING OBJECTIVES
<ul style="list-style-type: none"> • Modeling and evaluation of the performance of digital circuits, analog blocks and RF. • Acquire a global perspective of methodologies, flows, tools for design and analysis of integrated circuits, their applications, limitations and evolution. • Go through the design flow of a digital system starting from its RT specifications. • Acquire expertise in the design and implementation of digital, analog and RF circuits. To this end, the student must know how to make use of the CAD tools employed throughout the various phases of the design flow.

LEARNING ACTIVITIES
<ul style="list-style-type: none"> • Online theoretical-lectures classes. • Practical classes and/or exercises: tutorials, resolution of selected problems and practical work.

EVALUATION SYSTEM
<ul style="list-style-type: none"> • Assimilation of concepts: on-going evaluation supported by exercises and problems. • Evaluation of capacities: practical cases with optional individual online presentation. • Examinations.