

COURSE NAME			
Micro- and Nano-Devices and Technologies			
CREDITS	6 ECTS	TYPE	Compulsory
SCHEDULING	1st Term	CHARACTER	Theoretical-Practical

CONCISE COURSE CONTENTS
<ul style="list-style-type: none"> • Micro/nanoscale MOS technologies. • Active and passive devices: structure, operation and modeling. • Introduction to emerging devices and nanoelectronics.

LEARNING OBJECTIVES
<ul style="list-style-type: none"> • Get to know the materials, processes and technologies employed for the fabrication of integrated circuits. • Understand the physical and technological aspects of the operation of electronic devices as well as the design of integrated circuits. • Get to know the evolution of CMOS fabrication technologies and future trends.

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.