

COURSE NAME			
<b>Emerging Technologies</b>			
CREDITS	6 ECTS	TYPE	Elective
SCHEDULING	2nd Term	CHARACTER	Theoretical-Practical

CONCISE COURSE CONTENTS
<ul style="list-style-type: none"> <li>• Advanced modeling of behavior and performance measurement.</li> <li>• Problems related with the operation of high-performance and non-conventional CMOS circuits.</li> <li>• Nanoscale CMOS processes.</li> <li>• Frontiers of electronic technologies.</li> </ul>
LEARNING OBJECTIVES
<ul style="list-style-type: none"> <li>• Get to know the circuit structures and design techniques other than those of conventional CMOS.</li> <li>• Go in depth into the behavior of the MOS transistor.</li> <li>• Analyze the limitations imposed by technological advances.</li> <li>• Get to know the latest advances on micro-nanoscale devices.</li> <li>• Acquire knowledge to start research works in these areas.</li> </ul>
LEARNING ACTIVITIES
<ul style="list-style-type: none"> <li>• Online theoretical-lectures classes.</li> <li>• Practical classes and/or exercises: tutorials, resolution of selected problems and practical work.</li> </ul>
EVALUATION SYSTEM
<ul style="list-style-type: none"> <li>• Assimilation of concepts: on-going evaluation supported by exercises and problems.</li> <li>• Evaluation of capacities: practical cases with optional individual online presentation.</li> <li>• Examinations.</li> </ul>