COURSE NAME			
Bio-Inspired Processing: Algorithms and Circuits			
CREDITS	6 ECTS	ТҮРЕ	Elective
SCHEDULING	2nd Term	CHARACTER	Theoretical-Practical

CONCISE COURSE CONTENTS

- Microelectronic implementation of bio-inspired processing systems.
- Analog, digital and mixed-signal implementations.

LEARNING OBJECTIVES

- Get to know the main algorithms, architectures and circuit techniques suitable for the integrated implementation of bio-inspired processing systems. Get to know the achievable performance.
- Understand the problems and apply solutions at circuit level related to this kind of systems.
- Be able to address the task of designing and testing a bio-inspired processing system, from conception of functionality to the field test.

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.