

Master's degree in Optics, Image, Vision and Multimedia Signal and Medical Imaging

Master's degree year 1 - semester 1

Information theory (3 ECTS)
Programmable digital systems (3 ECTS)
Signal and image processing 1 (6 ECTS)
Object-oriented programming (3 ECTS)
Algorithm design and analysis (3 ECTS)
Programming and digital problem solving (3 ECTS)
Digital system control (3 ECTS)
Language techniques (3 ECTS)
English 1 (3 ECTS)

Master's degree year 1 - semester 2

Instrumentation (6 ECTS) including:
** Electronics and sensor for instrumentation (4 ECTS)
** Image system: physical principles and implementation (2 ECTS)
Signal and image processing 2 (6 ECTS)
Metrology and measurement (3 ECTS)
Programming and digital problem solving 2 (3 ECTS)
Physiology, systems of functional exploration and medical imaging (3 ECTS)
Instrumentation and production, signal and image (3 ECTS)
Project management (3 ECTS)
English (3 ECTS)

Master's degree year 2 - semester 1

Medical imaging 1 (5 ECTS)
Signal and image processing in medical applications (5 ECTS)
Physiological signals (3 ECTS)
Signal processing (4 ECTS) including:
** Data analysis and processing (2 ECTS)
** Non-stationary signal processing (2 ECTS)
Graphs theory and algorithms 2 (2 ECTS)
Advanced image processing techniques (3 ECTS)
English (3 ECTS)
Projects, seminars, and research (3 ECTS)
** Projects (2 ECTS)
** Seminars and research (1 ECTS)
Instrumentation and embedded instrumentation (2 ECTS)

Master's degree year 2 - semester 2

Internship (30 ECTS)