

DESIGN OF IoT ENVIRONMENTS (5 ECTS, S2 93001372):

Introduction to sensor networks for IoT; Introduction to the IoT (Internet of Things) paradigm; Characteristics and architectures of sensor networks; WSN, M2M communications, CPS; Wireless nodes, importance of power consumption and cost; Resource and service management in intermediate nodes; Edge Computing.

Wired and wireless connectivity technologies.

Design of power-efficient systems and integrated circuits (real-time, critical systems).

Development of practical applications/projects using hardware description languages and programming languages, and with programmable logic devices and microprocessors (multidisciplinary: bioengineering, telemedicine, etc.)