

**INFOBITES**  
**1 TOPIC**  
**2 CREDITS**  
**18 HOURS**

**3**

## **Introduction to robotics**

### **Pt. 1: Sensors and actuators**

Start: 26 April 2017

9 Lectures + Final Test

Wednesday, Thursdays and Friday

Room E4.20 and BITZ FabLab, 2–4 p.m.

Max participants: 20

**Come see computing become alive! Some slides and a lot of mini-experiments will teach you how to build small systems that can interact with the world.**

**In this first part of the course we will deal with the key elements of a robotic system and of microcontroller-based devices.**

After attending this course participants will possess basic notions of:

- Common robotics sensors and actuators
- Microcontroller systems and interfacing

#### **Prerequisites:**

Basic knowledge of the C/C++ languages. Pre-existing familiarity with basic analog and digital electronics, and with the MatLab and Arduino environments may be helpful but is not required.

#### **Registration:**

Limited places (20) – register as soon as possible!

By March 27 2017, send an e-mail to

**computer.science@unibz.it** including:

- (1) a presentation of yourself
- (2) the detail of your skills in computer science
- (3) your motivation for attending the course