1 TOPIC 2 CREDITS 18 HOURS





Basic electronics and digital signal processing

Start: 16 October 2018

9 Lectures + Final Test

Tuesdays

unibz, Room E4.12, 4-6 p.m.

Max participants: 20

Learn how a computer really "thinks"! This short course will introduce you to digital signal processing, from essential topics of analog signal conditioning to advanced field-programmable gate array programming.

After attending this course participants will possess basic notions of:

- Analog signal processing (propagation, filtering, amplification, impedance matching)
- Analog-to-digital and digital-to-analog conversion
- Combinatorial and sequential devices
- Digital signal processing (DSP)
- DSP via programmable logic devices (FPGA)

Prerequisites:

Basic knowledge of C/C++ languages. Basic knowledge of passive electronics (resistances, capacitors, Ohm's law, etc.).

Registration:

Limited places (20) – register a soon as possible! By October 9 2018, 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

