ICFO

FPGA: Lectures for Scientists

PAU GOMEZ

November 18, 2025 to December 16, 2025
15:00 to 18:00
Mir-Puig Seminar Room (MP210)

FPGA Lectures for Scientist is a collection of hands-on FPGA programming lectures for scientists without (or very basic) experience in FPGA programming. The intent is to provide simple, functional and opensource examples, which incrementally incorporate new FPGA programming concepts. This course speeds up the initial learning curve and, after its completion, the attendees will be able to create their own FPGA designs that interface with digital & analog IOs.?

Dates and Venue: 18th, 25th Of November and 2th and 9th and 16th of December from 15:00 - 18:00

Target Group: PhD students, Post-doctoral researchers and engineers with interest for high-speed digital electronics and who can benefit from custom signal generation and acquisition logic.

Available places: 10

Training content:?

VHDL/Verilog development
Behavioral simulation
Xilinx Zynq (FPGA chipset), Vivado (FPGA development environment), PYNQ (Python runtime configuration environment)
Digital IOs
Analog IOs (high-speed DAC / ADC)
Advanced signal processing (DMA, DDS...)

FORM: FPGA Dr. Pau Gomez | LuxQuanta - Fill out form

Hosted by: Academic Affairs