

Scheda Laboratori di Ricerca

<p>Denominazione del Laboratorio</p>	<p><i>Italiano</i> Laboratorio di Elettronica <i>Inglese</i> Laboratory of Electronics</p>
<p>Gruppo di Ricerca di Riferimento</p>	<p><i>Italiano</i> 1) Elettronica di Potenza per l'Industria, l'Energia ed i Trasporti 2) Applicazioni avanzate, modellazione e progettazione di dispositivi elettromagnetici in bassa frequenza 3) Elaborazione delle immagini e sensoristica ottica e a microonde <i>Inglese</i> 1) Power Electronics for Industry, Energy and Transport 2) Advanced Applications, Modeling and Design of Low Frequency Electromagnetic Devices 3) Image Processing and Optical Microwave Sensors</p>
<p>Descrizione sintetica delle attrezzature, della strumentazione e delle attività di ricerca</p>	<p><i>Inglese</i> The main research and teaching activities carried out in the electronics laboratory are the following: - Analysis of analog, digital, radio-frequency, energy-management circuits and systems as well as of circuits based on microcontroller (uC) and FPGA - Design of analog, digital, radio-frequency, energy-management circuits and systems as well as of circuits based on microcontroller (uC) and FPGA - Prototyping of analog, digital, radio-frequency, energy-management circuits and systems as well as of circuits based on microcontroller (uC) and FPGA - Testing of analog, digital, radio-frequency, energy-management circuits and systems as well as of circuits based on microcontroller (uC) and FPGA - Simulation of analog, digital, radio-frequency, energy-management circuits and systems as well as of circuits based on microcontroller (uC) and FPGA. The main equipment available in the electronics laboratory is the following: - Keysight Technologies ENA E5061B Vector Network/Impedance Analyzer, 5Hz – 3GHz - Agilent 4396B RF Network/Spectrum/Impedance Analyzer, 2Hz – 1.8GHz - Agilent ESA E4404B Spectrum Analyzer, 9kHz-6.7GHz - Agilent 1682A Standalone Logic Analyzer, 800 MHz / 400 MHz - Teledyne LeCroy HDO6104B Oscilloscope, 1GHz, 10GS/s - Lecroy Waverunner 6100A Oscilloscope, 1GHz, 10GS/s - Teledyne LeCroy HDO6054 Oscilloscope, 500MHz, 2.5GS/s - Tektronix TDS5054B Oscilloscope, 500MHz, 5GS/s - Agilent 8648B Radio Frequency Signal Generator, 9kHz – 2GHz - Keysight Technologies 33622A Waveform Generator, 120 MHz - Rohde&Schwarz AM300 Arbitrary Function Generator, 50MHz - Kepco BOP 50-2D 4-quadrant Amplifier, 50V, 2A - Keysight Technologies EL34243A Electronic Load, 300 W, 60 A, 150 V - Keysight Technologies U1733C LCR Meter, 20mF, 200 MΩ, 2000H - Keysight Technologies E36313A Triple Output Power Supply, 160W - Keithley DMM6500 6.5 Digit Multimeter.</p>

- Electronic measurement instruments
- Circuit prototyping tools
- Tin soldering iron
- Personal Computers