



LABORATORY OF PRINTED CIRCUIT BOARDS AND ELECTRONICS (PCBLAB)

Main objectives and activities of the laboratory

Activities of the PCBlab are mainly focused on the design and prototype production of PCBs and related activities in the field of electronics. The laboratory is focused on the development of electronics, diagnostics and measurement on assembled and bare PCBs, and functional and technological analyses in the field. It also deals with applied research in the field of technical solutions in electronics and commercial development.

An essential activity of the laboratory is to provide PCBlab facilities for teaching in relevant subjects and to support student projects.

Professional focus of the laboratory

- professional design of PCBs and consultation in this area,
- comprehensive design of electronics and electronic devices,
- Diagnostics, testing and measurement of assembled and bare PCBs,
- functional and technological analyses in the field of electronics and PCBs,
- rework and reverse engineering.

Specific equipment and development tools

- software tools for designing, manufacturing and testing electronics, consulting services,
- electronic measurement of assembled and bare PCBs,
- thermal analysis of electrical faults,
- optical and tomographic inspection of PCBs and electronics,
- microsections and their evaluation.

Offered technologies and expertise

- design tools for the development of PCBs and electronics,
- prototyping production of PCBs and electronic devices,
- surface finishing of PCBs,
- assembling and soldering (+ rework) of electronic components,
- practical background for teaching subjects and projects.

