

Institute of Life Sciences and Technologies of
Daugavpils University - scientific
infrastructure and research directions related
to CERN





Building of the Institute of Life Sciences and Technology



Study and Research Centre "Ilgas"

Structure

- Department of Technology - 13 (8,5 FTE) scientific and technical staff units;
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- Department of Applied Chemistry - 4 (2 FTE) scientific and technical staff units;
- Department of Biotechnology - 7 (6 FTE) scientific and technical staff units;
- other departments.



Research directions related to CERN

- Nanostructured functional materials;
- Nanobiosensors;
- Digital holographic recording methods;
- Industrial methods of laser processing of materials;
- Programming of industrial equipment and robots;
- Coatings for metallic surfaces;
- Development of fluorescent analysis methods and fluorescent materials.



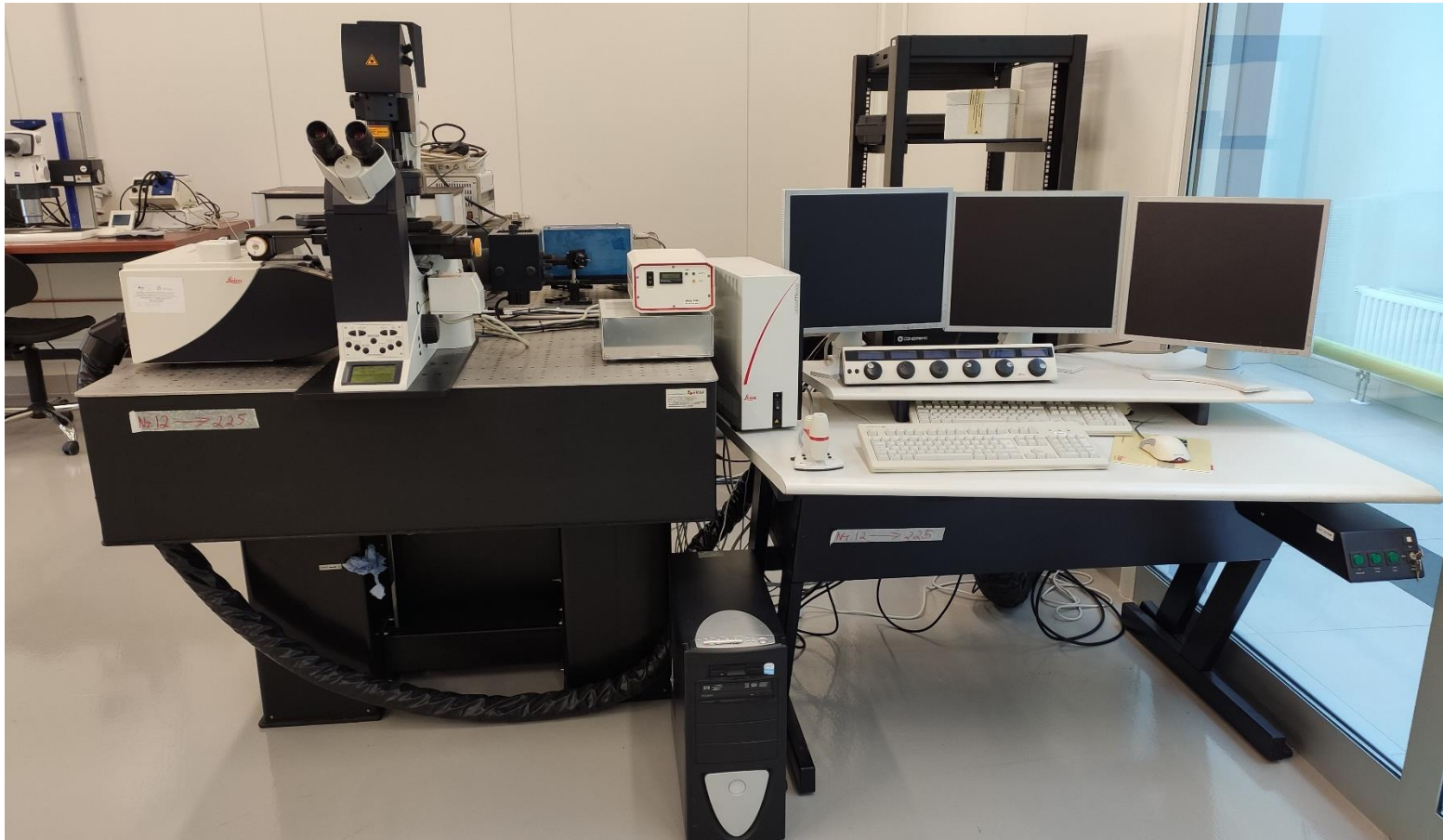
Equipment



**Electron Scanning Microscope
(Tescan MAIA3)**



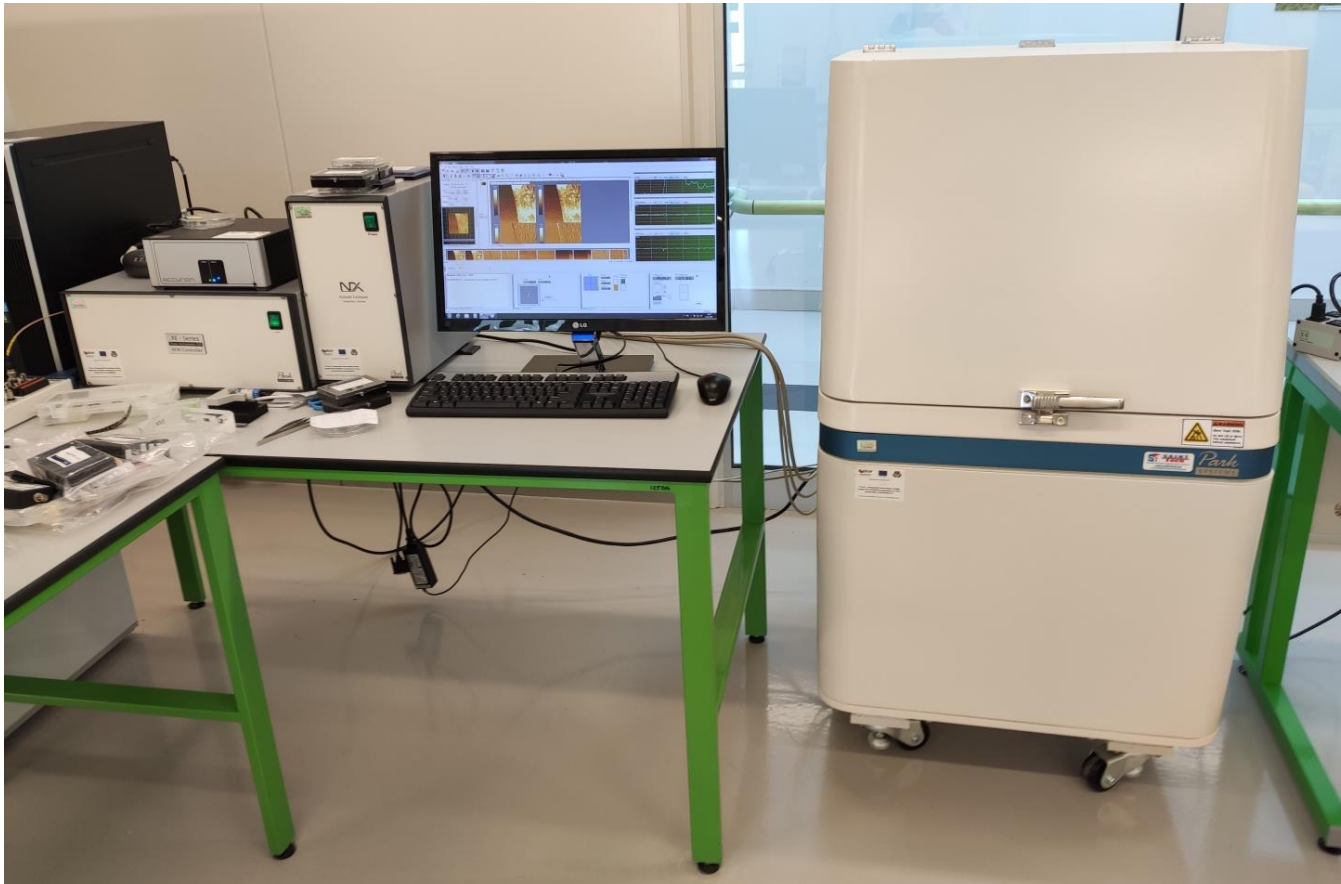
Equipment



Laser scanning microscope Leica TCS SPS



Equipment

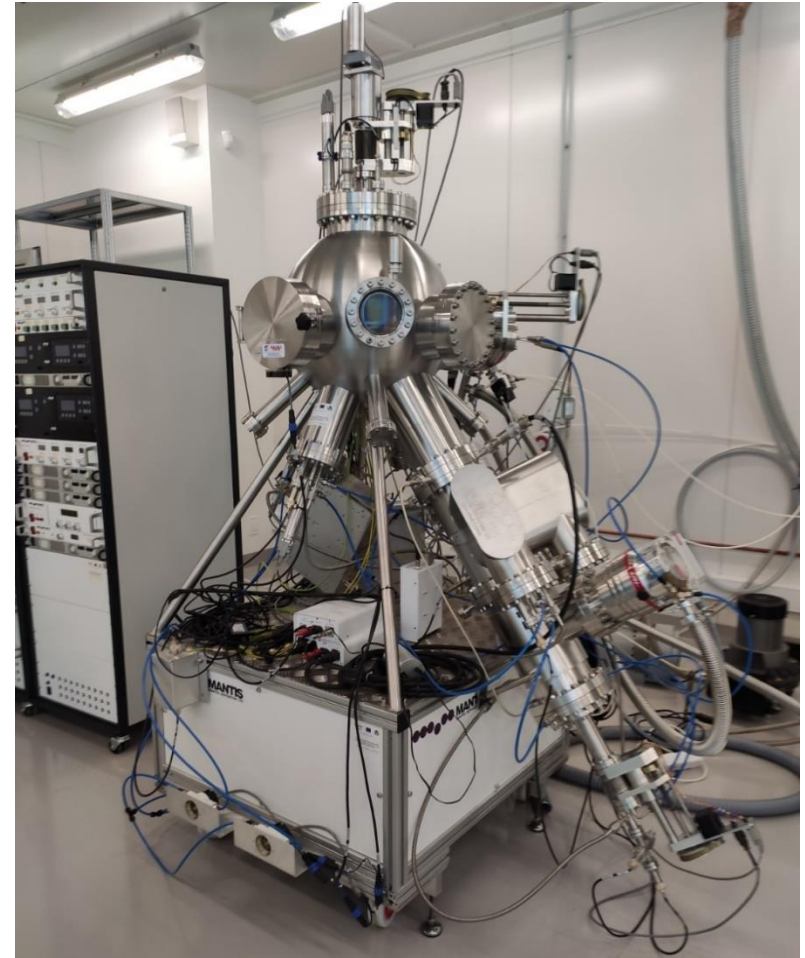


**Multifunctional atomic force microscope
PARK AFM**

Equipment



**Thin Film Deposition System Kurt
J Lesker LAB18**



**Nanoparticle sputtering
system NanoGen**

Equipment



Optical Recording Laboratory



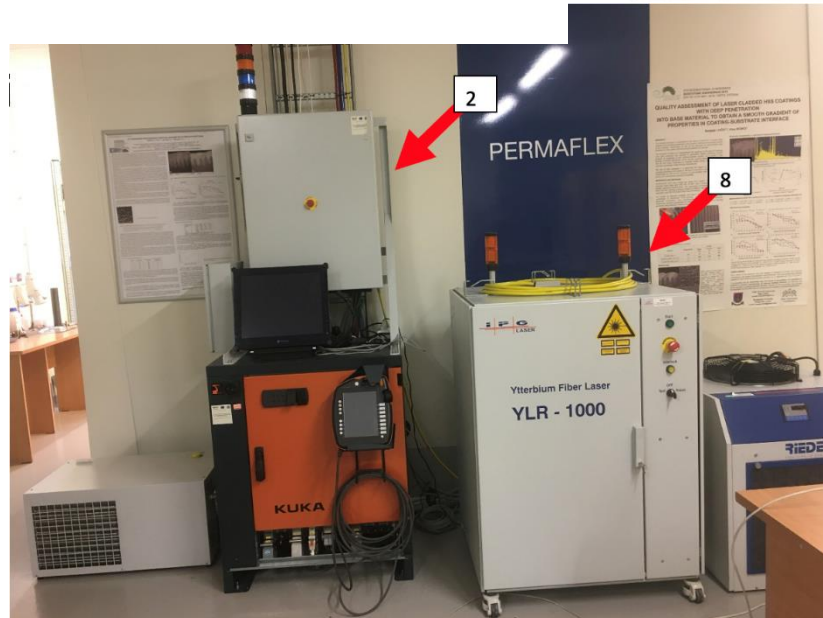
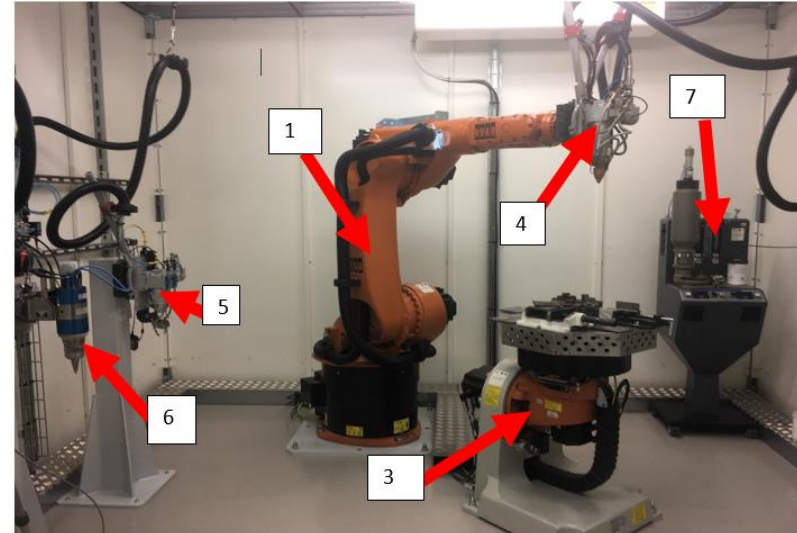
Equipment



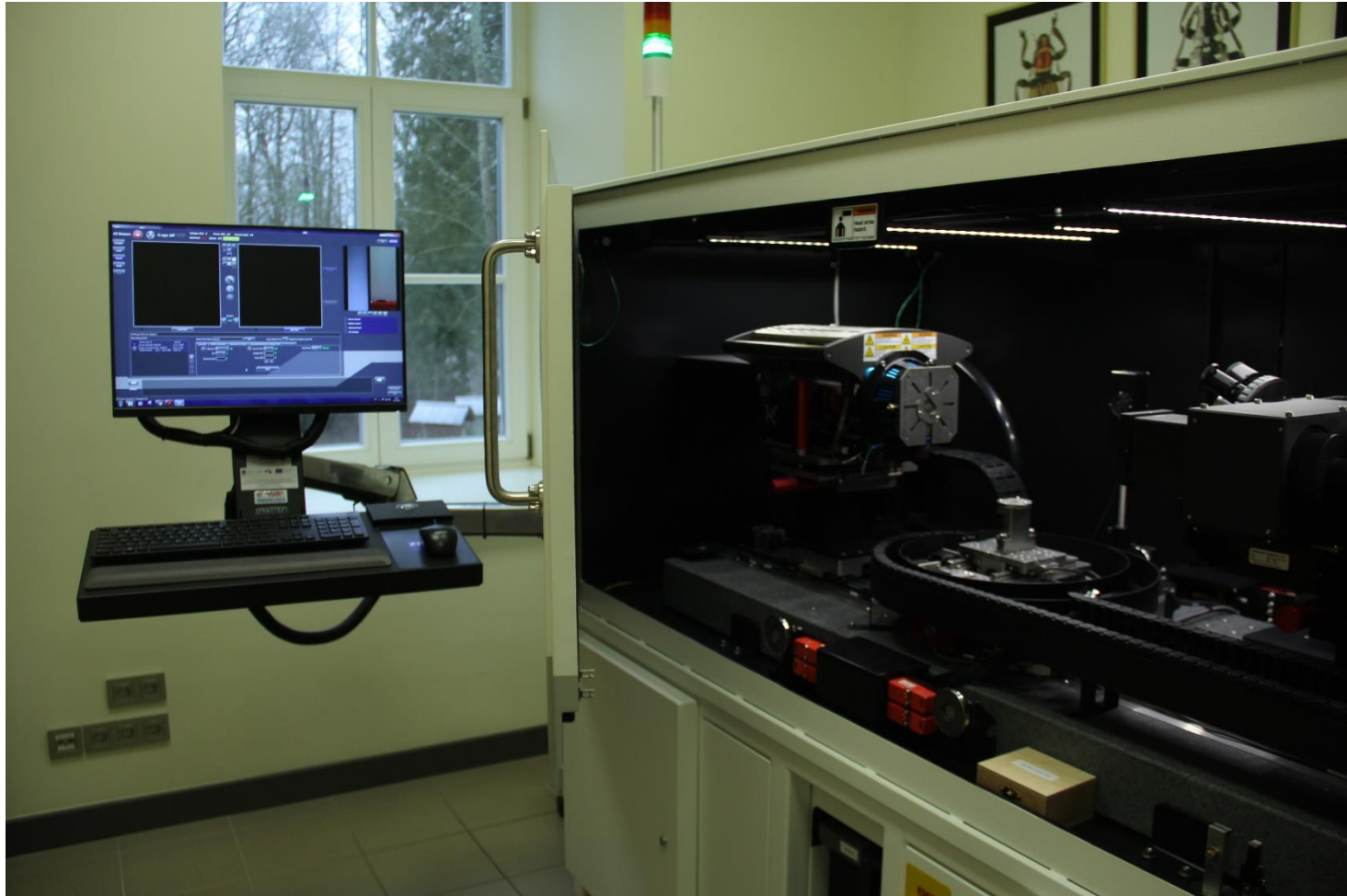
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Equipment



Tomography System ZEISS Xradia 510 Versa



Equipment

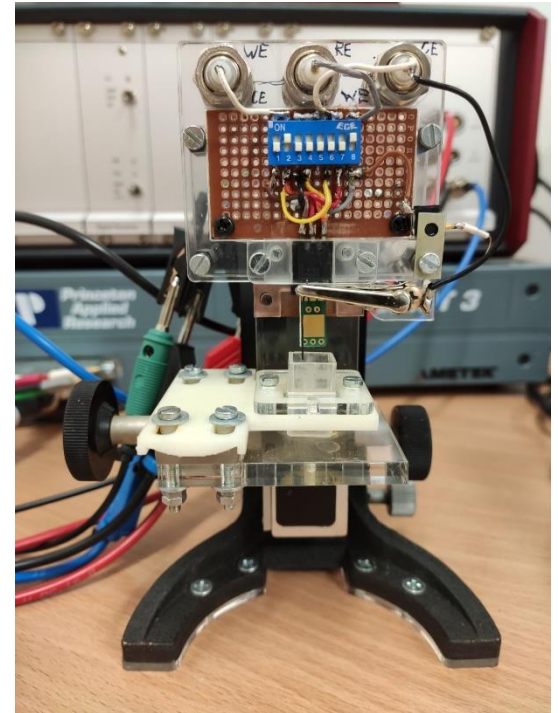


**Spectrophotometer
Shimadzu UV-2550**



**Microspectrophotometer
TFProbe MSP500RTFM**

Equipment



Zahner electrochemical workstation

Thank you for your attention!



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