

Microwave digestion system Ethos Easy

Atomic absorption spectroscopy Lab

Main function:

Acid digestion of samples in closed inert (Teflon) vessel by microwave heating.



Application:

Sample preparation for elemental analysis by various spectrometric techniques (AAS, ICP-OES, ICP-MS) in various matrices - soils; foods; pharmaceutical preparations; geological samples; cosmetic products; special high purity chemicals, etc.



New equipment for the Atomic force microscopy Lab

Sample preparation equipment – Spin Coater Model CY-SP4

Functions:

Spin coating is a procedure used to deposit uniform thin films to flat substrates.

Application:

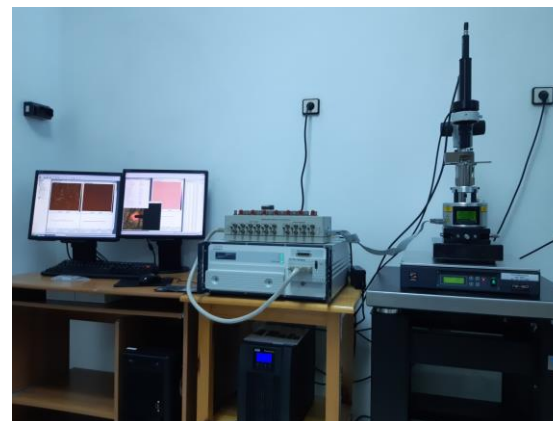
Used for liquid samples preparation.



Uninterruptible power supply device - UPS (with the blue display in the photo)

Functions: /a brief description/

For protection and long-lasting and reliable power supply of the equipment in the lab.



Scanning Electron Microscope ZEISS EVO15

Scanning electron microscopy Lab

Functions:

- Electron Source - LaB_6
- Resolution 2 nm, at 30 kV SE
- Acceleration voltage range from 0.2 to 30 kV
- Backscattered and secondary electrons detectors
- Energy dispersive spectroscopy detector (for elemental analysis) **Oxford Instruments AZtecLiveOne with Xplore 30** detecting elements with atomic number from 4 (Be) to 98 (Cf).



Application:

Morphology investigation of various samples with no need of conducting coating: metals and alloys; semiconductors and components for electronics; ceramics; geological samples; biological samples; archeological artefacts. Option for elemental analysis and phase composition determination.