Name of the course	**Electron microscopy**
Number of instruction hours	two day workshop
Outline of course/module content	Principles of electron microscopy. Transimission (TEM) and scanning (SEM) electron microscopy. Electron sources, detectors and working parameters. Secondary signals. Sample preparation. High-resolution microscopy (HRTEM), electron diffraction. Environmental SEM (low vacuum). X-ray spectrometry (EDX and WDX). Application of electron microscopy for materials characterization.
Description of instruction methods	Lectures, consultations and pratical work on the instruments
Description of course/module requirements	Seminar papers and oral examination