Name of the course	Spectroscopic methods in materials research
Number of instruction hours	20
Outline of course/module	Vibrational spectroscopies (FT-IR, Raman). Basic principles. Instrumentation.
content	Vibrational spectra analysis. Practical examples in the analysis of different
	materials (ordered and disordered structures). Electronic spectroscopies.
	UV/Vis/NIR spectroscopy. Energy dispersive X-ray spectroscopy (EDAX). Basic
	principles. Spectra analysis. Nuclear spectroscopies. Mossbauerspectroscopy.
	basic principles. Instrumentation. Hyperfine interactions and spectra analysis.
	Mossbauer spectroscopy and magnetic materials.
Description of instruction	Lectures, consulting, seminars, student research projects
methods	
Description of course/module	oral exam, seminar paper
requirements	