

Course Title	RAMAN SPECTROSCOPY
Instructor	Simonpietro Agnello
N of hours	10
Description	Introduction to basic vibrational spectroscopies and their use in material science
Contents	<ul style="list-style-type: none"><li>- Overview of vibrational spectroscopy: normal modes of molecules and solids; group theory and selection rules.</li><li>- Raman spectroscopy: Elastic and inelastic scattering. Molecular vibration and polarizability. Classical and semi-classical approach to Raman effect.</li><li>- Instrumental setups and microscopy tools.</li><li>- Laboratory experiments: application of the MicroRaman technique.</li></ul>