

5.0 credits

30.0 h + 30.0 h

1q

Teacher(s) :	Bertrand Patrick (coordinator) ; Devaux Jacques ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	Radiation- matter interaction Basic principles of spectroscopy Absorption spectroscopy Infrared spectroscopy Raman spectroscopy Scattering and crystal structure Photon-solid inelastic interaction Electron-matter interaction Nuclear Magnetic Resonance
Aims :	Understanding of fundamental phenomena related to the techniques used in materials characterization <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Content :	1.INTRODUCTION 2.RADIATION-MATTER INTERACTION 3.SPECTROSCOPY (GENERALITIES) 4.ABSORPTION SPECTROSCOPY 5.INFRARED SPECTROSCOPY 6. RAMAN SPECTROSCOPY 7.SCATTERING AND CRYSTAL STRUCTURE 8.PHOTON-SOLID INELASTIC INTERACTION 9.ELECTRON-MATTER INTERACTION 10.NUCLEAR MAGNETIC RESONANCE
Other infos :	Nil
Cycle and year of study :	> Master [120] in Chemical and Materials Engineering > Master [120] in Physical Engineering > Master [120] in Biomedical Engineering
Faculty or entity in charge:	FYKI