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## **COURSE: ADVANCED SPETROSCOPIES FOR STRUCTURAL STUDIES**

### **1. RESEARCH AND INTERNATIONAL ACTIVITY**

#### **Areas of scientific interest:**

- 1) Study of the structural and electronic properties of organic molecules by *ab initio* and DFT calculations
- 2) Study of the structural and electronic properties of organic molecules by NMR spectroscopy.
- 3) Theoretical calculations of NMR parameters (chemical shift and nuclear spin-spin coupling constants) and study of their correlation with structural properties