

## School of Chemistry

### Aims and Objectives: Session 2023-2024, Semester 2

#### Module CH1402: Inorganic and Physical Chemistry 1

**Course Title:** Introductory Spectroscopy

**Duration:** 5 hours

**Lecturer:** Dr D. G. Pinto

**Aims:** To understand the basics of some spectroscopic techniques and to learn the specific strengths and fields of application of these techniques.

**Objectives:**

1. To understand the nature of electromagnetic radiation and to know the energy region relevant for atomic excitations.
2. To know typical energy values associated with electronic excitations and to be able to express the energies associated with these excitations in different units.
3. To appreciate the discrete nature of atomic excitations based on the Bohr model.
4. To understand the origin and the meaning of selection rules.
5. To appreciate the relation between atomic properties and the associated spectrum.