



Universidade do Minho



## **16 Curricular Unit**

Advanced Physics Topics 1

### **Module**

Spectroscopic techniques for the characterization of materials (STCM)

### **Type**

Lecture course

### **Contact hours**

18

### **Professor/Researcher in charge**

Luis Carlos, U. Aveiro

### **Summary of Contents**

Optical properties;

Photoluminescence in steady state and time resolved (emission spectra and emission decay curves) modes.

Quantification of the emission features (Absolute quantum yield, photometric and radiometric parameters, colour coordinates)

Ellipsometry. Fundamentals and applications. Structural modelling.

Electric properties; EPR

### **Evaluation**

Written Test (3h).

### **Juri**

Luís Carlos, Florinda Costa; João Pedro Araújo