

## Advanced Electronic Materials

School of Metallurgy & Materials, School of Metallurgy and Materials

College of Engineering and Physical Sciences

### Details

**Code** 17193

**Level of study** Third/Final year

**Credit value** 10

**Semester** 2

### Module description

The module will develop a broad and deep understanding of the processing and properties of advanced functional materials. It will continue to develop the concepts established in the Level I FCMA Energy and Communications and FCMb Transport and Environment modules. The module will contain a detailed study of the processing and properties of several advanced electronic materials systems concentrating on the microstructure property relationships which allows the exploitation of specific functional properties in particular applications. Materials to be studied will include permanent magnetic materials, superconducting materials, ferroelectric and microwave dielectric materials.