



## Electrical characterization of complex materials

Lecturer: prof. Nikolaos Bonanos (Technical University of Denmark)

### Course description:

The purpose of the course is to facilitate the entry of students into the subject of the Electrical Characterization of Materials, including Impedance Spectroscopy, and to provide a knowledge base for those already using it.

### Syllabus of the lecture:

1. Fundamentals of dc and ac measurements.
2. Models for the response of solids, including electrical circuits.
3. Effects of boundaries, polyphasicity and porosity in solids.
4. Design of conductivity, dielectric and electrochemical cells.
5. Applications to energy systems solid oxide including fuel cells.

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
5 maj 2014	Poniedziałek	9.00-12.00	208NE
6 maj 2014	Wtorek	9.00-12.00	208NE
7 maj 2014	Środa	9.00-12.00	208NE
8 maj 2014	Czwartek	9.00-12.00	208NE
9 maj 2014	Piątek	9.00-12.00	208NE