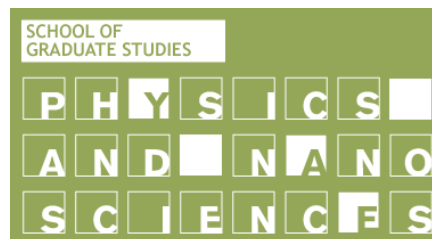




UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



## PhD School in Physics and Nanosciences

---

### PhD Course: Transmission electron Microscopy

23/10/2012 3H (Grillo) 10.00 **Modena**  
The Transmission Electron Microscope (TEM)  
Principles of image formation  
Sample preparation

25/10/2012 3H (Balboni) 9.30 **Modena**  
Electron-Matter interaction  
Electron Diffraction  
Convergent Beam Electron Diffraction (CBED)

30/10/2012 3H (Grillo) 10.00 **Modena**  
Principles of High Resolution Transmission Electron Microscopy (HRTEM) and Scanning  
Transmission Electron Microscopy (STEM)  
More on HRTEM and exit wave reconstruction

8/11/2012 3H (Grillo- Ortolani) 10.00 **Modena**  
More on STEM with various detector configuration - Grillo  
Details of image interpretation in STEM - Grillo  
Elements of Electron Holography - Ortolani

16/11/2012 3-4 H (Grillo, Nasi) ore 10.00 **Modena**  
Elements of EELS, EDX and Tomography - Grillo  
Application of TEM to the study of nanostructured materials – Nasi

5/12/2012 6H (Nasi, Lazzarini) 9.30, **Istituto IMEM-CNR Parma**  
Lezione pratica First Group (5 students)

12/12/2012 6H (Nasi, Lazzarini) ore 9.30, **Istituto IMEM-CNR Parma**  
Hands on lecture Second Group (5 students)