

M.PHILS (one-year courses), DIPLOMAS AND SPECIAL COURSES

MICHAELMAS 2010

LENT 2011

EASTER 2011

M.PHIL. IN MICRO- AND NANOTECHNOLOGY ENTERPRISE

Course Directors: Dr Cate Ducati and Dr Rachel Oliver (cd251@cam.ac.uk and rao28@cam.ac.uk)
 Course Website: www.msm.cam.ac.uk/nanoenterprise

Lectures will be delivered in the *Department of Materials Science and Metallurgy*, **Department of Engineering*,
 †*Department of Chemistry and §Nanoscience Centre*

DR J. LOUDON, DR R. A. OLIVER, MS M. VICKERS
NE.01 Characterisation Techniques (Sixteen lectures)
 DR A. A. SESHIA
 ***NE.02** MEMS Design (Sixteen lectures)
 DR A. FLEWITT
 ***NE.03** Materials and Processes for MEMS (Sixteen lectures)
 DR A. AZIZ, DR S. HARRINGTON
NE.04 Nanofabrication Techniques (Sixteen lectures)
 PROF. J. L. DRISCOLL, DR K. KOZIOL
NE.05 Nanomaterials (Sixteen lectures)
 †DR J. NITSCHKE
NE.06 Nanochemistry (Sixteen lectures)
 DR C. FORD, PROF. M. G. BLAMIRE
NE.07 Physical Properties at the Nanometre-scale (Sixteen lectures)

DR P. D. BARKER
NE.08 Bionanotechnology (Sixteen lectures)
 DR R. OLIVER, DR M. MORAM
NE.09 Semiconductor nanostructures for devices (Sixteen lectures)
 DR C. SCHWANDT
NE.10 Nanoelectrochemistry (Sixteen lectures)
 PROF. J. BAUMBERG
NE.11 Nano Self Assembly (NDTC1) (Sixteen lectures)

Additional lecture courses

VARIOUS LECTURERS
 Science Communication in Business, Media and Research (Twenty-four lectures)-
 VARIOUS LECTURERS
MoTI Management of Technology and Innovation (Forty-eight lectures) to be arranged by the Judge Institute of Management
 PROF. M. WELLAND§
Societal and Ethical Dimensions of Nano and Biotechnology (Six lectures)

MATERIALS SCIENCE AND METALLURGY*Courses for Graduates*

Course Organiser: Dr R. E. M. Ward (email: remw2@cam.ac.uk)

Lectures will be given in the *Department of Materials Science and Metallurgy*, unless otherwise stated

A detailed timetable is available in the Department. Further information on the Research School is at <http://www.msm.cam.ac.uk/Department/Internal/graduate/index.html>

STAFF OF THE DEPARTMENT
 Techniques of Materials Research. M. Tu. W. Th. F.
 (Seven lectures)
 DR R. A. OLIVER, DR J. LOUDON
 Characterisation Techniques (Twelve lectures)
 DR J. S. BARNARD
 Scanning Electron Microscopy. (Eight lectures)
 DR R. E. CAMERON AND MISS M. E. VICKERS
 X-Ray and Neutron Diffraction Methods. (Six lectures)

TO BE CONFIRMED
 Advanced Transmission Electron Microscopy.
 (Seven lectures)
 DR J. S. BARNARD
 Microanalysis. (Eight lectures)
 DR S. M. BEST
 Introduction to Biomaterials. (Four lectures)
 DR C. SCHWANDT
 Materials Chemistry. (Six lectures)
 DR W. O. SAXTON
 Image Processing in Materials Science. (Four lectures)
 DR A. AZIZ, DR S. A. HARRINGTON
 Nanofabrication Techniques. (Six lectures)