

Graduate Lecture Programme in Photonics

Session 1: General Photonics Principles

Lecturer:	Title:
BEAM PROPAGATION	
RW Eason	Gaussian Beam Optics
P Smith	Nonlinear Optics
WS Brocklesby	Pulse Propagation in Dispersive Media
OPTICAL FIBRES	
P Petropoulos	Optical Fibres and Fibre Telecommunications
MN Zervas	Nonlinearities in Optical Fibres
LASERS AND WAVEGUIDES	
T Newson	Laser Physics
WA Clarkson	Solid State Lasers
DP Shepherd	Planar Waveguides

ORC Postgraduate Cleanroom Course 2011

For every topic there is a 1-hour lecture and a practical demonstration session in the following 7 days.

Planar Photonics		
Lecture	Wed 19 Jan	J Wilkinson
Demo	19-25 Jan	D Sager
FAST Lab		
Lecture	Wed 26 Jan	B Mills
Demo	26 Jan-1 Feb	B Mills
Soft Glass		
Lecture	Wed 2 Feb	D Hewak
Demo	2-8 Feb	K Knight
Silica Fibre Fabrication		
Lecture	Wed 9 Feb	J Sahu
Demo	9-15 Feb	J Sahu + TBC
Flame Hydrolysis Deposition (FHD)		
Lecture	Wed 16 Feb	P Smith
Demo	16-22 Feb	J Gates
Scanning Electron Microscopy (SEM) & Focused Ion Beam (FIB) (double session)		
Lecture Lecture	Wed 23 Feb	S Ganapathy - SEM K MacDonald - FIB
Demo Demo	23 Feb-1 Mar	N Sessions - SEM K MacDonald - FIB

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Session 2: **Selected Topics** *(not assessed)*

All lectures to take place in Seminar Room 4025B, Mountbatten Building
from 1000- 1200 hrs

Date:	Notes:	Lecturer:	Title:
Wed 2 Mar		M Ibsen	Fibre Gratings
Wed 9 Mar	10-11 11-12	TP Newson J Nilsson	Optical Fibre Sensors High Power Fibre Lasers
Wed 16 Mar		V Fedotov	Metamaterials
Wed 23 Mar		P Horak	Numerical Techniques in Optics
Wed 30 Mar	10-11 11-12	F Poletti M Petrovich	Microstructured Fibres
Wed 6 Apr	10-11 11-12	PG Kazansky	Glass Poling Femtosecond Laser Writing
Wed 13 Apr		WS Brocklesby	Optical Pulse Characterisation