

# DEPARTMENT OF MATERIALS

## DIVISION OF MATHEMATICAL, PHYSICAL AND LIFE SCIENCES

### Lecture List for Michaelmas Term 2020

Lectures begin on the first possible day after the beginning of Full Term (Sunday 11 October) unless otherwise stated.

All lectures will be available as online recordings via Canvas ([www.canvas.ox.ac.uk](http://www.canvas.ox.ac.uk)). It is important that the intended sequence of lectures is followed both within and across lecture courses. The schedule below includes a recommended time slot to view the lectures, which is followed by a Question & Answer session held by the lecturer, via MS Teams, to provide the opportunity to submit questions for the lecturer to address as would normally take place within a live lecture. Links to the Q&A sessions will be available via the respective Canvas sites, as indicated.

All times are [current UK times](#)

<i>Subject</i>	<i>Lecturer</i>	<i>Recommended Slot – start time</i>	<i>Deadline by when recording must be viewed</i>	<i>Time of lecturer's Q&amp;A session (Live sessions via Teams)</i>	<i>Canvas site where details may be found</i>
<b>FIRST YEAR</b>					
Induction Course	Prof. T.J. Marrow, Ms P.J. Moss & others	Live session via Teams: Fri 9 Oct, 2pm – 4.00pm TBC			<a href="#">MEng Materials Science - Prelims</a>
Introduction to Maths and Computing for Materials Science	Prof. J.R. Yates	Mon 12 Oct, 8.00am	Mon 12 Oct, 9.00am	Mon 12 Oct, 9.10am	<a href="#">Y1 Maths for Materials Science</a>
Introduction to Prelims Programme	Prof. C.R.M. Grovenor	Mon 12 Oct, 11.30am	Mon 12 Oct, 12.30pm	Mon 12 Oct, 12.40pm	<a href="#">MEng Materials Science - Prelims</a>
Introduction to Practicals	Prof. S. Lozano-Perez	Live session via Teams: Mon 12 Oct, 2.00pm			<a href="#">Y1 Practical Classes</a>
Introduction to Computing	Dr P.J. Warren				<a href="#">Y1 Practical Classes</a>
Practical Classes	Various				<a href="#">Y1 Practical Classes</a>
Introduction to Errors in Measurement	Prof. J.M. Smith	Tues 13 Oct, 11.30am Wed 14 Oct, 11.30am	Tues 13 Oct, 12.30pm Wed 14 Oct, 12.30pm	Tues 13 Oct, 12.40pm Wed 14 Oct, 12.40pm	<a href="#">Crystallography, Coursework &amp; Other Elements</a>
Workshop on writing a full practical report / keeping a good lab notebook	Prof. S. Lozano-Perez	Live session via Teams: Tues 20 Oct, 9.00am – 11am			<a href="#">Y1 Practical Classes</a>
Crystal Model Making Build & Keep	Prof. M.R. Castell	Tues 27 Oct, 9.00am – 11.00am Kits will be sent out for you to use during the recording			<a href="#">Crystallography, Coursework &amp; Other Elements</a>

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Crystallography Classes	Dr E. Darnbrough, Dr P. Chen & Dr T. Slater	Live session via Teams: Tues 3 Nov, 9.00am – 12noon Tues 17 Nov, 9.00am – 12noon Tues 1 Dec, 9.00am – 12noon			<a href="#">Crystallography, Coursework &amp; Other Elements</a>
Computing for Materials Science Classes	Prof. J.R. Yates	Live session via Teams/Zoom: Tues 10 Nov, 9.00am – 12noon Tues 24 Nov, 9.00am – 12noon			<a href="#">Computing for Materials Science</a>
The Institute of Materials – Benefits of Student Membership	Dr S Boad – Institute of Materials	Mon 2 Nov, 11.45am	Mon 2 Nov, 12.00pm	Mon 2 Nov, 12.10pm	<a href="#">MEng Materials Science - Prelims</a>
<b>Materials Science 1: Physical Foundations of Materials</b>					
The Study of Crystalline Materials by Diffraction	Prof. A.I. Kirkland	Mon 12 Oct, 9.30am Wed 14 Oct, 9.30am Thurs 15 Oct, 9.30am Fri 16 Oct, 9.30am Mon 19 Oct, 9.30am Wed 21 Oct, 9.30am Thurs 22 Oct, 9.30am Fri 23 Oct, 9.30am	Mon 12 Oct, 10.30am Wed 14 Oct, 10.30am Thurs 15 Oct, 10.30am Fri 16 Oct, 10.30am Mon 19 Oct, 10.30am Wed 21 Oct, 10.30am Thurs 22 Oct, 10.30am Fri 23 Oct, 10.30am	Mon 12 Oct 10.40am Wed 14 Oct, 10.40am Thurs 15 Oct, 10.40am Fri 16 Oct, 10.40am Mon 19 Oct, 10.40am Wed 21 Oct, 10.40am Thurs 22 Oct, 10.40am Fri 23 Oct, 10.40am	<a href="#">Materials Science 1 – Physical Foundations of Materials</a>
<b>Materials Science 2: Structure and Mechanical Properties of Materials</b>					
Elastic Deformation	Prof. A.J. Wilkinson	Mon 19 Oct, 11.30am Wed 21 Oct, 11.30am Thurs 22 Oct, 11.30am Fri 23 Oct, 11.30am Mon 26 Oct, 11.30am Wed 28 Oct, 11.30am Thurs 29 Oct, 11.30am Fri 30 Oct, 11.30am	Mon 19 Oct, 12.30pm Wed 21 Oct, 12.30pm Thurs 22 Oct, 12.30pm Fri 23 Oct, 12.30pm Mon 26 Oct, 12.30pm Wed 28 Oct, 12.30pm Thurs 29 Oct, 12.30pm Fri 30 Oct, 12.30pm	Mon 19 Oct, 12.40pm Wed 21 Oct, 12.40pm Thurs 22 Oct, 12.40pm Fri 23 Oct, 12.40pm Mon 26 Oct, 12.40pm Wed 28 Oct, 12.40pm Thurs 29 Oct, 12.40pm Fri 30 Oct, 12.40pm	<a href="#">Materials Science 2: Structure &amp; Mechanical Properties of Materials</a>

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Structures of Crystalline and Glassy Materials	Prof. K.A.Q. O'Reilly & Prof. M.L. Galano	Mon 9 Nov, 11.30am Wed 11 Nov, 11.30am Thurs 12 Nov, 11.30am Fri 13 Nov, 11.30am Mon 16 Nov, 11.30am Wed 18 Nov, 11.30am Thurs 19 Nov, 11.30am Fri 20 Nov, 11.30am	Mon 9 Nov, 12.30pm Wed 11 Nov, 12.30pm Thurs 12 Nov, 12.30pm Fri 13 Nov, 12.30pm Mon 16 Nov, 12.30pm Wed 18 Nov, 12.30pm Thurs 19 Nov, 12.30pm Fri 20 Nov, 12.30pm	Mon 9 Nov, 12.40pm Wed 11 Nov, 12.40pm Thurs 12 Nov, 12.40pm Fri 13 Nov, 12.40pm Mon 16 Nov, 12.40pm Wed 18 Nov, 12.40pm Thurs 19 Nov, 12.40pm Fri 20 Nov, 12.40pm	<a href="#">Materials Science 2: Structure &amp; Mechanical Properties of Materials</a>
<b>Materials Science 3: Transforming Materials</b>					
Thermodynamics	Prof. M.P. Moody	Mon 26 Oct, 8.00am Wed 28 Oct, 8.00am Thurs 29 Oct, 8.00am Fri 30 Oct, 8.00am Mon 2 Nov, 8.00am Wed 4 Nov, 8.00am Thurs 5 Nov, 8.00am Fri 6 Nov, 8.00am	Mon 26 Oct, 9.00am Wed 28 Oct, 9.00am Thurs 29 Oct, 9.00am Fri 30 Oct, 9.00am Mon 2 Nov, 9.00am Wed 4 Nov, 9.00am Thurs 5 Nov, 9.00am Fri 6 Nov, 9.00am	Mon 26 Oct, 9.10am Wed 28 Oct, 9.10am Thurs 29 Oct, 9.10am Fri 30 Oct, 9.10am Mon 2 Nov, 9.10am Wed 4 Nov, 9.10am Thurs 5 Nov, 9.10am Fri 6 Nov, 9.10am	<a href="#">Materials Science 3: Transforming Materials</a>
Microstructure & Processing of Materials I	Prof. C.R.M. Grovenor	Fri 6 Nov, 9.30am Mon 9 Nov, 8.00am Fri 13 Nov, 8.00am Mon 16 Nov, 8.00am Fri 20 Nov, 8.00am Mon 23 Nov, 8.00am Thurs 26 Nov, 8.00am Fri 27 Nov, 8.00am	Fri 6 Nov, 10.30am Mon 9 Nov, 9.00am Fri 13 Nov, 9.00am Mon 16 Nov, 9.00am Fri 20 Nov, 9.00am Mon 23 Nov, 9.00am Thurs 26 Nov, 9.00am Fri 27 Nov, 9.00am	Fri 6 Nov, 10.40am Mon 9 Nov, 9.10am Fri 13 Nov, 9.10am Mon 16 Nov, 9.10am Fri 20 Nov, 9.10am Mon 23 Nov, 9.10am Thurs 26 Nov, 9.10am Fri 27 Nov, 9.10am	<a href="#">Materials Science 3: Transforming Materials</a>
<b>Maths for Materials Science</b>					
Ordinary and Partial Differentiation	Dr E. Liberti	Tues 13 Oct, 8.00am Wed 14 Oct, 8.00am Thurs 15 Oct, 8.00am Fri 16 Oct, 8.00am Mon 19 Oct, 8.00am Wed 21 Oct, 8.00am	Tues 13 Oct, 9.00am Wed 14 Oct, 9.00am Thurs 15 Oct, 9.00am Fri 16 Oct, 9.00am Mon 19 Oct, 9.00am Wed 21 Oct, 9.00am	Tues 13 Oct, 9.10am Wed 14 Oct, 9.10am Thurs 15 Oct, 9.10am Fri 16 Oct, 9.10am Mon 19 Oct, 9.10am Wed 21 Oct, 9.10am	<a href="#">Y1 Maths for Materials Science</a>

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Vectors & Matrices	Prof. S.C. Benjamin	Mon 26 Oct, 9.30am Thurs 29 Oct, 9.30am Mon 2 Nov, 9.30am Wed 4 Nov, 9.30am Thurs 5 Nov, 9.30am Mon 9 Nov, 9.30am Wed 11 Nov, 9.30am Thurs 12 Nov, 9.30am Mon 16 Nov, 9.30am Wed 18 Nov, 9.30am Thurs 19 Nov, 9.30am	Mon 26 Oct, 10.30am Thurs 29 Oct, 10.30am Mon 2 Nov, 10.30am Wed 4 Nov, 10.30am Thurs 5 Nov, 10.30am Mon 9 Nov, 10.30am Wed 11 Nov, 10.30am Thurs 12 Nov, 10.30am Mon 16 Nov, 10.30am Wed 18 Nov, 10.30am Thurs 19 Nov, 10.30am	Mon 26 Oct, 10.40am Thurs 29 Oct, 10.40am Mon 2 Nov, 10.40am Wed 4 Nov, 10.40am Thurs 5 Nov, 10.40am Mon 9 Nov, 10.40am Wed 11 Nov, 10.40am Thurs 12 Nov, 10.40am Mon 16 Nov, 10.40am Wed 18 Nov, 10.40am Thurs 19 Nov, 10.40am	<a href="#">Y1 Maths for Materials Science</a>
<b>SECOND YEAR</b>					
<b>GP1: Lifecycle, Processing &amp; Engineering of Materials</b>					
Selection & Production of Engineering Materials I	Prof. H.E. Assender & Prof. M.L. Galano	Wed 14 Oct, 11.30am Thur 15 Oct, 9.30am Wed 21 Oct, 11.30am Thur 22 Oct, 9.30am	Wed 14 Oct, 12.30am Thur 15 Oct, 10.30am Wed 21 Oct, 12.30am Thur 22 Oct, 10.30am	Wed 14 Oct, 12.40am Thur 15 Oct, 10.40am Wed 21 Oct, 12.40am Thur 22 Oct, 10.40am	<a href="#">GP1: Lifecycle, Processing &amp; Engineering of Materials</a>
<b>GP2: Electronic Properties of Materials</b>					
Electronic Structure of Materials	Dr C.E. Patrick	Mon 2 Nov, 11.30am Thurs 5 Nov, 11.30am Fri 6 Nov, 11.30am Mon 9 Nov, 11.30am Thurs 12 Nov, 11.30am Fri 13 Nov, 11.30am Mon 16 Nov, 11.30am Thurs 19 Nov, 11.30am Fri 20 Nov, 11.30am Mon 23 Nov, 11.30am Thurs 26 Nov, 11.30am Fri 27 Nov, 11.30am	Mon 2 Nov, 12.30pm Thurs 5 Nov, 12.30pm Fri 6 Nov, 12.30pm Mon 9 Nov, 12.30pm Thurs 12 Nov, 12.30pm Fri 13 Nov, 12.30pm Mon 16 Nov, 12.30pm Thurs 19 Nov, 12.30pm Fri 20 Nov, 12.30pm Mon 23 Nov, 12.30pm Thurs 26 Nov, 12.30pm Fri 27 Nov, 12.30pm	Mon 2 Nov, 12.40pm Thurs 5 Nov, 12.40pm Fri 6 Nov, 12.40pm Mon 9 Nov, 12.40pm Thurs 12 Nov, 12.40pm Fri 13 Nov, 12.40pm Mon 16 Nov, 12.40pm Thurs 19 Nov, 12.40pm Fri 20 Nov, 12.40pm Mon 23 Nov, 12.40pm Thurs 26 Nov, 12.40pm Fri 27 Nov, 12.40pm	<a href="#">GP2: Electronic Properties of Materials</a>

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<b>GP3: Mechanical Properties of Materials</b>					
Elastic Deformation of Materials	Prof. P.D. Nellist & Prof. J.T. Czernuszka	Mon 26 Oct, 8.00am Wed 28 Oct, 8.00am Thurs 29 Oct, 8.00am Mon 2 Nov, 8.00am Wed 4 Nov, 8.00am Mon 9 Nov, 8.00am Wed 11 Nov, 8.00am Thurs 12 Nov, 8.00am Mon 16 Nov, 8.00am Wed 18 Nov, 8.00am	Mon 26 Oct, 9.00am Wed 28 Oct, 9.00am Thurs 29 Oct, 9.00am Mon 2 Nov, 9.00am Wed 4 Nov, 9.00am Mon 9 Nov, 9.00am Wed 11 Nov, 9.00am Thurs 12 Nov, 9.00am Mon 16 Nov, 9.00am Wed 18 Nov, 9.00am	Mon 26 Oct, 9.10am Wed 28 Oct, 9.10am Thurs 29 Oct, 9.10am Mon 2 Nov, 9.10am Wed 4 Nov, 9.10am Mon 9 Nov, 9.10am Wed 11 Nov, 9.10am Thurs 12 Nov, 9.10am Mon 16 Nov, 9.10am Wed 18 Nov, 9.10am	<a href="#">GP3: Mechanical Properties of Materials</a>
<b>GP4: Structure &amp; Thermodynamics of Materials</b>					
Statistical Mechanics and Thermal Properties	Prof. J.M. Smith	Mon 12 Oct, 11.30am Thurs 15 Oct, 11.30am Fri 16 Oct, 11.30am Mon 19 Oct, 11.30am Fri 23 Oct, 11.30am Mon 26 Oct, 11.30am Thurs 29 Oct, 11.30am Fri 30 Oct, 11.30am	Mon 12 Oct, 12.30pm Thurs 15 Oct, 12.30pm Fri 16 Oct, 12.30pm Mon 19 Oct, 12.30pm Fri 23 Oct, 12.30pm Mon 26 Oct, 12.30pm Thurs 29 Oct, 12.30pm Fri 30 Oct, 12.30pm	Mon 12 Oct, 12.40pm Thurs 15 Oct, 12.40pm Fri 16 Oct, 12.40pm Mon 19 Oct, 12.40pm Fri 23 Oct, 12.40pm Mon 26 Oct, 12.40pm Thurs 29 Oct, 12.40pm Fri 30 Oct, 12.40pm	<a href="#">GP4: Structure &amp; Thermodynamics of Materials</a>
Phase Transformations	Prof. C.R.M. Grovenor	Tues 20 Oct, 9.30am Wed 21 Oct, 9.30am Tues 27 Oct, 9.30am Wed 28 Oct, 9.30am Thurs 29 Oct, 9.30am Tues 3 Nov, 9.30am Wed 4 Nov, 9.30am Thurs 5 Nov, 9.30am Tues 10 Nov, 9.30am Wed 11 Nov, 9.30am Thurs 12 Nov, 9.30am Tues 17 Nov, 9.30am Wed 18 Nov, 9.30am Thurs 19 Nov, 9.30am Tues 24 Nov, 9.30am Wed 25 Nov, 9.30am	Tues 20 Oct, 10.30am Wed 21 Oct, 10.30am Tues 27 Oct, 10.30am Wed 28 Oct, 10.30am Thurs 29 Oct, 10.30am Tues 3 Nov, 10.30am Wed 4 Nov, 10.30am Thurs 5 Nov, 10.30am Tues 10 Nov, 10.30am Wed 11 Nov, 10.30am Thurs 12 Nov, 10.30am Tues 17 Nov, 10.30am Wed 18 Nov, 10.30am Thurs 19 Nov, 10.30am Tues 24 Nov, 10.30am Wed 25 Nov, 10.30am	Tues 20 Oct, 10.40am Wed 21 Oct, 10.40am Tues 27 Oct, 10.40am Wed 28 Oct, 10.40am Thurs 29 Oct, 10.40am Tues 3 Nov, 10.40am Wed 4 Nov, 10.40am Thurs 5 Nov, 10.40am Tues 10 Nov, 10.40am Wed 11 Nov, 10.40am Thurs 12 Nov, 10.40am Tues 17 Nov, 10.40am Wed 18 Nov, 10.40am Thurs 19 Nov, 10.40am Tues 24 Nov, 10.40am Wed 25 Nov, 10.40am	<a href="#">GP4: Structure &amp; Thermodynamics of Materials</a>

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<b>Other Lectures</b>					
Introduction to the Part I Materials Programme	Prof. T.J. Marrow	Mon 12 Oct, 8.00am	Mon 12 Oct, 9.00am	Mon 12 Oct, 9.10am	<a href="#">MEng Materials Science - Part I</a>
Introduction to Practicals	Prof. S. Lozano-Perez	Live session via Teams: Mon 12 Oct, 9.30am			<a href="#">Y2 Practical Classes</a>
Introduction to Industrial Visits	Dr E. Liotti	Live session via Teams: Wed 14 Oct, 9.30am			<a href="#">MEng Materials Science - Part I</a>
Mathematics – Partial Differential Equations & Fourier Series and Tensors	Prof. S.C. Benjamin and Prof. G.A.D. Briggs	Tues 13 Oct, 8.00am Fri 16 Oct, 8.00am Tues 20 Oct, 8.00am Fri 23 Oct, 8.00am Tues 27 Oct, 8.00am Fri 30 Oct, 8.00am Tues 3 Nov, 8.00am Fri 6 Nov, 8.00am Tues 10 Nov, 8.00am Fri 13 Nov, 8.00am Tues 17 Nov, 8.00am Fri 20 Nov, 8.00am	Tues 13 Oct, 9.00am Fri 16 Oct, 9.00am Tues 20 Oct, 9.00am Fri 23 Oct, 9.00am Tues 27 Oct, 9.00am Fri 30 Oct, 9.00am Tues 3 Nov, 9.00am Fri 6 Nov, 9.00am Tues 10 Nov, 9.00am Fri 13 Nov, 9.00am Tues 17 Nov, 9.00am Fri 20 Nov, 9.00am	Tues 13 Oct, 9.10am Fri 16 Oct, 9.10am Tues 20 Oct, 9.10am Fri 23 Oct, 9.10am Tues 27 Oct, 9.10am Fri 30 Oct, 9.10am Tues 3 Nov, 9.10am Fri 6 Nov, 9.10am Tues 10 Nov, 9.10am Fri 13 Nov, 9.10am Tues 17 Nov, 9.10am Fri 20 Nov, 9.10am	<a href="#">Y2 Mathematics for Materials Science</a>
Entrepreneurship: Business Plan – workshop on 'Teams'	Dr E. Williams	Live session via Zoom: Fri 30 Oct, 2.00pm – 4.00pm			<a href="#">Entrepreneurship Coursework</a>
Entrepreneurship: Business plan briefing	Dr S.M. Wilkinson	Thurs 26 Nov, 9.30am	Thurs 26 Nov, 10.30am	Thurs 26 Nov, 10.40am	<a href="#">Entrepreneurship Coursework</a>
Industrial Lecture – Johnson Matthey	Representative from Johnson Matthey	Live sessions via Teams Fri 27 Nov, 2.00pm – 3.30pm			<a href="#">MEng Materials Science - Part I</a>
Practical Classes	Various				
Industrial 'Visit'	Dr E. Liotti	Live session via Teams (tbc): Thurs 12 Nov, 2.00pm – 4.00pm OR Fri 13 Nov, 2.00pm – 4.00pm OR Fri 27 Nov, 2.00pm – 4.00pm			<a href="#">MEng Materials Science - Part I</a>

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<b>Supplementary Subjects</b>					
<sup>2</sup> History and Philosophy of Science: The Origins of Science	Dr J. Lidwell-Durnin	As communicated by the course convenor			
<sup>1,2</sup> Quantum Chemistry	Prof D.E. Manolopoulos & Prof S.R. Mackenzie	As communicated by the course convenor			
<b>THIRD YEAR</b>					
<b>Options Paper 1 - Lectures</b>					
<sup>2</sup> Materials & Devices for Optics & Optoelectronics	Prof. J.M. Smith	Mon 2 Nov, 9.30am Tues 3 Nov, 11.30am Thurs 5 Nov, 8.00am Mon 9 Nov, 9.30am Tues 10 Nov, 11.30am Thurs 12 Nov, 8.00am Mon 23 Nov, 9.30am Tues 24 Nov, 11.30am Thurs 26 Nov, 8.00am Mon 30 Nov, 9.30am Tues 1 Dec, 11.30am Thurs 3 Dec, 8.00am	Mon 2 Nov, 10.30am Tues 3 Nov, 12.30pm Thurs 5 Nov, 9.00am Mon 9 Nov, 10.30am Tues 10 Nov, 12.30pm Thurs 12 Nov, 9.00am Mon 23 Nov, 10.30am Tues 24 Nov, 12.30pm Thurs 26 Nov, 9.00am Mon 30 Nov, 10.30am Tues 1 Dec, 12.30pm Thurs 3 Dec, 9.00am	Mon 2 Nov, 10.40am Tues 3 Nov, 12.40pm Thurs 5 Nov, 9.10am Mon 9 Nov, 10.40am Tues 10 Nov, 12.40pm Thurs 12 Nov, 9.10am Mon 23 Nov, 10.40am Tues 24 Nov, 12.40pm Thurs 26 Nov, 9.10am Mon 30 Nov, 10.40am Tues 1 Dec, 12.40pm Thurs 3 Dec, 9.10am	<a href="#">OP1 – Options Paper 1</a>
<sup>2</sup> Prediction of Materials Properties	Dr C.E. Patrick	Wed 28 Oct, 9.30am Thurs 29 Oct, 8.00am Fri 30 Oct, 9.30am Tues 3 Nov, 8.00am Wed 4 Nov, 9.30am Tues 10 Nov, 8.00am Wed 11 Nov, 9.30am Tues 24 Nov, 8.00am Wed 25 Nov, 9.30am Mon 30 Nov, 11.30am Tues 1 Dec, 8.00am Wed 2 Dec, 9.30am	Wed 28 Oct, 10.30am Thurs 29 Oct, 9.00am Fri 30 Oct, 10.30am Tues 3 Nov, 9.00am Wed 4 Nov, 10.30am Tues 10 Nov, 9.00am Wed 11 Nov, 10.30am Tues 24 Nov, 9.00am Wed 25 Nov, 10.30am Mon 30 Nov, 12.30pm Tues 1 Dec, 9.00am Wed 2 Dec, 10.30am	Wed 28 Oct, 10.40am Thurs 29 Oct, 9.10am Fri 30 Oct, 10.40am Tues 3 Nov, 9.10am Wed 4 Nov, 10.40am Tues 10 Nov, 9.10am Wed 11 Nov, 10.40am Tues 24 Nov, 9.10am Wed 25 Nov, 10.40am Mon 30 Nov, 12.40pm Tues 1 Dec, 9.10am Wed 2 Dec, 10.40am	<a href="#">OP1 – Options Paper 1</a>

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<sup>2</sup> Nanomaterials	Prof. N. Grobert, Prof. K. Porfyrakis & Prof. H. Bhaskaran	Mon 2 Nov, 8.00am Wed 4 Nov, 8.00am Fri 6 Nov, 9.30am Mon 9 Nov, 8.00am Wed 11 Nov, 8.00am Fri 13 Nov, 9.30am Mon 23 Nov, 8.00am Wed 25 Nov, 8.00am Fri 27 Nov, 9.30am Mon 30 Nov, 8.00am Wed 2 Dec, 8.00am Fri 4 Dec, 9.30am	Mon 2 Nov, 9.00am Wed 4 Nov, 9.00am Fri 6 Nov, 10.30am Mon 9 Nov, 9.00am Wed 11 Nov, 9.00am Fri 13 Nov, 10.30am Mon 23 Nov, 9.00am Wed 25 Nov, 9.00am Fri 27 Nov, 10.30am Mon 30 Nov, 9.00am Wed 2 Dec, 9.00am Fri 4 Dec, 10.30am	Mon 2 Nov, 9.10am Wed 4 Nov, 9.10am Fri 6 Nov, 10.40am Mon 9 Nov, 9.10am Wed 11 Nov, 9.10am Fri 13 Nov, 10.40am Mon 23 Nov, 9.10am Wed 25 Nov, 9.10am Fri 27 Nov, 10.40am Mon 30 Nov, 9.10am Wed 2 Dec, 9.10am Fri 4 Dec, 10.40am	<a href="#">OP1 – Options Paper 1</a>
<sup>2</sup> Engineering Ceramics: Synthesis & Properties	Prof. R.I. Todd	Wed 28 Oct, 8.00am Thurs 29 Oct, 11.30am Fri 30 Oct, 8.00am Tues 3 Nov, 9.30am Thurs 5 Nov, 11.30am Fri 6 Nov, 8.00am Tues 10 Nov, 9.30am Thurs 12 Nov, 11.30am Fri 13 Nov, 8.00am Tues 24 Nov, 9.30am Thurs 26 Nov, 11.30am Fri 27 Nov, 8.00am	Wed 28 Oct, 9.00am Thurs 29 Oct, 12.30pm Fri 30 Oct, 9.00am Tues 3 Nov, 10.30am Thurs 5 Nov, 12.30pm Fri 6 Nov, 9.00am Tues 10 Nov, 10.30am Thurs 12 Nov, 12.30pm Fri 13 Nov, 9.00am Tues 24 Nov, 10.30am Thurs 26 Nov, 12.30pm Fri 27 Nov, 9.00am	Wed 28 Oct, 9.10am Thurs 29 Oct, 12.40pm Fri 30 Oct, 9.10am Tues 3 Nov, 10.40am Thurs 5 Nov, 12.40pm Fri 6 Nov, 9.10am Tues 10 Nov, 10.40am Thurs 12 Nov, 12.40pm Fri 13 Nov, 9.10am Tues 24 Nov, 10.40am Thurs 26 Nov, 12.40pm Fri 27 Nov, 9.10am	<a href="#">OP1 – Options Paper 1</a>
<sup>2</sup> Advanced Manufacture with Metals and Alloys: Processing, Joining & Shaping	Prof. K.A.Q. O'Reilly & Dr E. Liotti	Wed 28 Oct, 11.30am Thurs 29 Oct, 9.30am Fri 30 Oct, 11.30am Mon 2 Nov, 11.30am Thurs 5 Nov, 9.30am Fri 6 Nov, 11.30am Mon 9 Nov, 11.30am Thurs 12 Nov, 9.30am Fri 13 Nov, 11.30am Mon 23 Nov, 11.30am Thurs 26 Nov, 9.30am Fri 27 Nov, 11.30am	Wed 28 Oct, 12.30pm Thurs 29 Oct, 10.30am Fri 30 Oct, 12.30pm Mon 2 Nov, 12.30pm Thurs 5 Nov, 10.30am Fri 6 Nov, 12.30pm Mon 9 Nov, 12.30pm Thurs 12 Nov, 10.30am Fri 13 Nov, 12.30pm Mon 23 Nov, 12.30pm Thurs 26 Nov, 10.30am Fri 27 Nov, 12.30pm	Wed 28 Oct, 12.40pm Thurs 29 Oct, 10.40am Fri 30 Oct, 12.40pm Mon 2 Nov, 12.40pm Thurs 5 Nov, 10.40am Fri 6 Nov, 12.40pm Mon 9 Nov, 12.40pm Thurs 12 Nov, 10.40am Fri 13 Nov, 12.40pm Mon 23 Nov, 12.40pm Thurs 26 Nov, 10.40am Fri 27 Nov, 12.40pm	<a href="#">OP1 – Options Paper 1</a>



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<b>Options Paper 1 - Classes</b>					
<sup>1,2</sup> Materials & Devices for Optics & Optoelectronics	Class Lecturer				
Class 1	B. Griffiths	Live sessions via Teams: Mon 23 Nov, 4.00pm Tues 24 Nov, 2.00pm Wed 25 Nov, 2.00pm Fri 27 Nov, 4.00pm			<a href="#">OP1 – Options Paper 1</a>
Class 2	B. Griffiths	Classes in Banbury Road Conference Room, numbers restricted to 8. One of: Tues 1 Dec, 4.00pm Wed 2 Dec, 2.00pm Thurs 3 Dec, 4.00pm Fri 4 Dec, 11.00am			<a href="#">OP1 – Options Paper 1</a>
<sup>1,2</sup> Prediction of Materials Properties	Class Lecturer				
Class 1	Dr C.E. Patrick	Classes in Banbury Road Conference Room, numbers restricted to 8. One of: Mon 23 Nov, 2.00pm Tues 24 Nov, 2.00pm Wed 25 Nov, 2.00pm Thurs 26 Nov, 4.00pm			<a href="#">OP1 – Options Paper 1</a>
Class 2	Dr C.E. Patrick	Live sessions via Teams: Tues 1 Dec, 4.00pm Wed 2 Dec, 2.00pm Thurs 3 Dec, 11.00am Fri 4 Dec, 11.00am			<a href="#">OP1 – Options Paper 1</a>
<sup>1, 2</sup> Nanomaterials	Class Lecturer				
Class 1	Dr B. Maciejewska	Live sessions via Teams: Mon 23 Nov, 4.00pm Tues 24 Nov, 4.00pm Wed 25 Nov, 11.00am Thurs 26 Nov, 2.00pm			<a href="#">OP1 – Options Paper 1</a>
Class 2	Prof. K. Porfyrakis	Live sessions via Teams: Tues 1 Dec, 2.00pm Wed 2 Dec, 11.00am Thurs 3 Dec, 11.00am Fri 4 Dec, 4.00pm			<a href="#">OP1 – Options Paper 1</a>

<b>Subject</b>	<b>Lecturer</b>	<b>Recommended Slot – start time</b>	<b>Deadline by when recording must be viewed</b>	<b>Time of lecturer's Q&amp;A session (Live sessions via Teams)</b>	<b>Canvas site where details may be found</b>
1,2Engineering Ceramics: Synthesis & Properties	Class Lecturer				
Class 1	D. Andrews	Live sessions via Teams: Mon 23 Nov, 2.00pm Tues 24 Nov, 4.00pm Wed 25 Nov, 4.00pm Fri 27 Nov, 2.00pm			<a href="#">OP1 – Options Paper 1</a>
Class 2	D. Andrews	Classes in Banbury Road Conference Room, numbers restricted to 8. One of: Tues 1 Dec, 2.00pm Wed 2 Dec, 11.00am Thurs 3 Dec, 2.00pm Fri 4 Dec, 2.00pm			<a href="#">OP1 – Options Paper 1</a>
1,2Advanced Manufacture with Metals and Alloys: Processing, Joining & Shaping	Class Lecturer				
Class 1	Prof. K.A.Q. O'Reilly	Live sessions via Teams: Wed 25 Nov, 11.00am Thur 26 Nov, 2.00pm Fri 27 Nov, 2.00pm Mon 30 Nov, 4.00pm			<a href="#">OP1 – Options Paper 1</a>
<b>Other Lectures</b>					
Introduction to Team Design Project	Prof. A.A.R. Watt	Live session via Teams: Mon 12 Oct, 9.30am			<a href="#">Team Design Project</a>
TDP Workshop on Markets and Market Disruptors	Prof. S. Newbury	Tues 13 Oct, 9.30am	Tues 13 Oct, 10.30am	Tues 13 Oct, 10.40am	<a href="#">Team Design Project</a>
Introduction to Industrial Visits	Dr E. Liotti	Live session via Teams: Thurs 15 Oct, 9.30am			<a href="#">MEng Materials Science - Part I</a>
Team Design Project Presentations	2x Examiners	Live sessions via Teams: Fri 30 Oct, 1.00pm to 5.00pm			<a href="#">Team Design Project</a>
External Part II Project Briefing	Prof. K.A.Q. O'Reilly	Live sessions via Teams: Tues 3 Nov, 2.00pm			<a href="#">MEng Materials Science - Part I</a>
Introduction to Modelling in Materials Science	Prof. J.R. Yates, Prof. R. Drautz & Prof. E. Tarleton	Online throughout week 6: Monday 16 November to Friday 20 November Detailed schedule to follow			<a href="#">Y3 Coursework Modules</a>

<b>Subject</b>	<b>Lecturer</b>	<b>Recommended Slot – start time</b>	<b>Deadline by when recording must be viewed</b>	<b>Time of lecturer's Q&amp;A session (Live sessions via Teams)</b>	<b>Canvas site where details may be found</b>
Introduction to Characterisation/Atomistic Modelling Option Modules	Prof. M.P. Moody, Prof. J.R. Yates & Dr C.E. Patrick	Live session via Teams: Tues 1 Dec, 9.30am			<a href="#">Y3 Coursework Modules</a>
Industrial Lecture – Johnson Matthey	Representative from Johnson Matthey	Live sessions via Teams Fri 27 Nov, 2.00pm – 3.30pm			<a href="#">MEng Materials Science - Part I</a>
Industrial 'Visit'	Dr E. Liotti	Live session via Teams (tbc): Thurs 12 Nov, 2.00pm – 4.00pm OR Fri 13 Nov, 2.00pm – 4.00pm OR Fri 27 Nov, 2.00pm – 4.00pm			<a href="#">MEng Materials Science - Part I</a>
<b>FOURTH YEAR</b>					
Workshop on Answering Examination Questions	Prof. T.J. Marrow	Live Session via Teams: Mon 28 Sept, 2.00pm – 3.30pm			
Part II Induction Course (Compulsory)	Prof. K.A.Q. O'Reilly & others	Live session via Teams: Mon 2 Nov, 9.30am – 11.30pm			<a href="#">Part II Research Project</a>
Part II Project Management (Compulsory)	Prof. K.A.Q. O'Reilly & others	Live session via Teams: Wed 4 Nov, 3.00pm – 4.30pm	TBC		<a href="#">Part II Research Project</a>
Workshops on Ethics & Sustainability, in the context of Part II	Co-ordinated by Prof. S. Newbury	Wed 18 Nov, 2.00pm – 4.00pm	Wed 18 Nov, 4.00pm	Wed 18 Nov, 4.15pm	<a href="#">Part II Research Project</a>
Workshop on Engineering/Scientific Context in respect of Part II Projects	Prof. R.C. Reed	Mon 30 Nov, 9.30am	Mon 30 Nov, 10.30am	Mon 30 Nov, 10.40am	<a href="#">Part II Research Project</a>
The OU Careers Service – Active Job Hunting	Dr A. Evans	Live session via Teams: Mon 9 Nov, 1.00pm			<a href="#">Part II Research Project</a>

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DPhil Open Day	Dr A.O. Taylor & HoD	Live session via Teams: Wed 11 Nov, 2.00pm – 3.30pm			<a href="#">Part II Research Project</a>
LabVIEW workshop	Prof. A.A.R. Watt & Dr F. Vigneau	Sessions in Teaching Labs, numbers restricted to 6. One of: Thurs 19 Nov, 9.00am – 12.00pm Thurs 26 Nov, 9.00am – 12.00pm Thurs 3 Dec, 9.00am – 12.00pm [Other dates may be scheduled if demand requires]			
<b>POSTGRADUATE</b>					
<b>Please also see the MPLS training webpages: <a href="http://www.mpls.ox.ac.uk/training/pgt">www.mpls.ox.ac.uk/training/pgt</a></b>					
<b>Postgraduate training</b>					
Induction course for Postgraduate students	Dr A.O. Taylor & others	Live session via Teams: Mon 5 Oct, 9.00am – 5.00pm Tues 6 Oct, 9.00am – 4.00pm			<a href="#">PGR Teaching&amp; Training</a>
<b>Safety Lecture (Compulsory for all new research workers)</b>	Mr I.P. Bishop, Dept Safety Officer	Live session via Teams: Tues 13 Oct, 10.00am			<a href="#">PGR Teaching&amp; Training</a>
Hydrofluoric Acid Lectures	Mrs C. Foldbjerg Holdway	Live session via Teams: Please contact Christina for details ( <a href="mailto:christina.foldbjerg@materials.ox.ac.uk">christina.foldbjerg@materials.ox.ac.uk</a> )			
Hazards from Ionising Radiation in X-ray Diffraction	University Safety Office	Please see <a href="https://safety.admin.ox.ac.uk/ionising-radiation-safety-training">https://safety.admin.ox.ac.uk/ionising-radiation-safety-training</a>			
Laser Safety Training	University Safety Office & Physics	Please see <a href="https://safety.admin.ox.ac.uk/laser-safety">https://safety.admin.ox.ac.uk/laser-safety</a> (Safety Office) or <a href="https://www2.physics.ox.ac.uk/laser-safety">https://www2.physics.ox.ac.uk/laser-safety</a> (Physics)			
The OU Careers Service – Active Job Hunting	Dr A. Evans	Live session via Teams: Mon 9 Nov, 1.00pm			<a href="#">PGR Teaching&amp; Training</a>
Information Skills	RSL representative	Live session via Teams: Fri 23 Oct, 10.30-11.30			<a href="#">PGR Teaching&amp; Training</a>
Looking to the Future – What Do Employers Seek? (for 1 <sup>st</sup> year postgraduates)	OUCaS and Dr A.O. Taylor	Live session via Teams: Fri 13 Nov, 3.00pm – 4.30pm			<a href="#">PGR Teaching&amp; Training</a>



<b>Subject</b>	<b>Lecturer</b>	<b>Recommended Slot – start time</b>	<b>Deadline by when recording must be viewed</b>	<b>Time of lecturer's Q&amp;A session (Live sessions via Teams)</b>	<b>Canvas site where details may be found</b>
<b>Postgraduate lecture courses</b>					
Foundation Topics for Electron Microscopy	Dr N.P. Young, Dr G.M. Hughes & Prof. P.D. Nellist	Wed 14 Oct, 9.30am Thurs 15 Oct, 2.00pm Tues 20 Oct, 9.30am Wed 21 Oct, 9.30am Thurs 22 Oct, 2.00pm Tues 27 Oct, 9.30am Wed 28 Oct, 9.30am Thurs 29 Oct, 2.00pm	Wed 14 Oct, 10.30am Thurs 15 Oct, 3.00pm Tues 20 Oct, 10.30am Wed 21 Oct, 10.30am Thurs 22 Oct, 3.00pm Tues 27 Oct, 10.30am Wed 28 Oct, 10.30am Thurs 29 Oct, 3.00pm	Wed 14 Oct, 10.40am Thurs 15 Oct, 3.10pm Tues 20 Oct, 10.40am Wed 21 Oct, 10.40am Thurs 22 Oct, 3.10pm Tues 27 Oct, 10.40am Wed 28 Oct, 10.40am Thurs 29 Oct, 3.10pm	<a href="#">PGR Teaching&amp; Training</a>
Microscopy and Analysis of Surfaces	Dr C.S. Allen	Thurs 29 Oct, 9.30am Fri 30 Oct, 9.30am Tues 3 Nov, 9.30am Tues 10 Nov, 9.30am Tues 17 Nov, 9.30am Fri 20 Nov, 9.30am Tues 24 Nov, 9.30am Fri 27 Nov, 9.30am	Thurs 29 Oct, 10.30am Fri 30 Oct, 10.30am Tues 3 Nov, 10.30am Tues 10 Nov, 10.30am Tues 17 Nov, 10.30am Fri 20 Nov, 10.30am Tues 24 Nov, 10.30am Fri 27 Nov, 10.30am	Thurs 29 Oct, 10.40am Fri 30 Oct, 10.40am Tues 3 Nov, 10.40am Tues 10 Nov, 10.40am Tues 17 Nov, 10.40am Fri 20 Nov, 10.40am Tues 24 Nov, 10.40am Fri 27 Nov, 10.40am	<a href="#">PGR Teaching&amp; Training</a>
<b><sup>2,4</sup>Options Lectures and Classes</b>					
See details for Third Year above					
<b>Research Colloquia</b>					
Materials Colloquia		Live sessions via Teams: Thurs 8 Oct, 9.30am tbc Thurs 15 Oct, 4.00pm Thurs 29 Oct, 4.00pm TBC Thurs 5 Nov, 4.00pm Thurs 3 Dec, 4.00pm			As circulated via notices@materials.ox.ac.uk
QIP Seminars		Tbc			
MML Seminars		Tbc			

<sup>1</sup>Students who wish to attend the Supplementary Subject lectures should be aware that due to timetabling constraints, some of the lectures may overlap with core lectures.

<sup>2</sup>The lecture courses each have three hours of associated classes

<sup>3</sup>Students attend one class in each week and need to register for a specific class via [WebLearn](#)

<sup>4</sup>This course is also offered to undergraduates as a 3<sup>rd</sup> year option. All postgraduates are welcome to take the course. They may select it as one of the two assessed courses in the first year provided they have not already taken the course as an undergraduate.