

DEPARTMENT OF MATERIALS

DIVISION OF MATHEMATICAL, PHYSICAL AND LIFE SCIENCES

Lecture List for Hilary Term 2021

Lectures begin on the first possible day after the beginning of Full Term (Sunday 17 January) unless otherwise stated.

All lectures will be available as online recordings via Canvas (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. Following a series of lectures, a Question & Answer session is 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&A session (Live sessions via Teams)</i>	<i>Canvas site where details may be found</i>
FIRST YEAR					
Computing for Materials Science: Classes	Prof. J.R. Yates	Live sessions via Teams/Zoom: Wk2: Tues 26 Jan, 9.00am – 12noon Wk3: Tues 2 Feb, 9.00am – 12noon			Computing for Materials Science
Computing for Materials Science: Surgery	Prof. J.R. Yates	Live session via Teams/Zoom: To sign up for a single 15 min slot from one of the following sessions: Wk1: Tues 19 Jan, 9.00am – 11.00am Wed 20 Jan, 9.00-am – 11.00am Thurs 21 Jan, 9.00am – 11.00am Fri 22 Jan, 10.00am – 11.00am			Computing for Materials Science
Looking to the Future: Career Planning	Dr A. Evans (OUCaS)	Live session via Teams: Wk2: Mon 25 Jan, 2.00pm			MEng Materials Science - Prelims

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Engineering Drawing Classes	Mr P. Bailey	Live sessions via Teams: To attend, as allocated, 2 of the following sessions Wk1: Fri 22 Jan, 2.00-5.00pm (MAN & STA) Wk2: Fri 29 Jan, 2.00-5.00pm (CCC) Wk3: Fri 5 Feb, 2.00-5.00pm (STC & TRI) Wk4: Fri 12 Feb, 2.00-5.00pm (QNS & SEH) Wk5: Fri 19 Feb, 2.00-5.00pm (MAN & STA) Wk6: Fri 26 Feb, 2.00-5.00pm (CCC) Wk7: Fri 5 Mar, 2.00-5.00pm (STC & TRI) Wk8: Fri 12 Mar, 2.00-5.00pm (QNS & SEH)			Y1 Practical Classes
Introduction to Practicals	Prof. S. Lozano-Perez	Live session via Teams: Wk1: Mon 18 Jan, 10.00am			Y1 Practical Classes
Practical Classes	Various				Y1 Practical Classes
Industrial Placements Briefing	Dr A.O. Taylor	Live session via Teams: Wk 1: Tues 19 Jan, 12.00noon – 1.00pm			MEng Materials Science - Prelims
Crystallography Classes	Dr E. Darnbrough, Dr P. Chen & Dr T. Slater	Live session via Teams: Wk 4: Tues 9 Feb, 9.00am – 12noon Wk 6: Tues 23 Feb, 9.00am – 12noon Wk 8: Tues 9 Mar, 9.00am – 12noon			Crystallography, Coursework & Other Elements
Materials Science 1: Physical Foundations of Materials					
Electromagnetic Properties and Devices	Prof. S.C. Speller	Wk2: Mon 25 Jan, 10.00am Wed 27 Jan, 10.00am Thurs 28 Jan, 10.00am Fri 29 Jan, 10.00am Wk3: Mon 1 Feb, 10.00am Wed 3 Feb, 10.00am Thurs 4 Feb, 10.00am Fri 5 Feb, 10.00am Wk 4: Mon 8 Feb, 10.00am Wed 10 Feb, 10.00am Thurs 11 Feb, 10.00am Fri 12 Feb, 10.00am	Wk2: Mon 25 Jan, 11.00am Wed 27 Jan, 11.00am Thurs 28 Jan, 11.00am Fri 29 Jan, 11.00am Wk3: Mon 1 Feb, 11.00am Wed 3 Feb, 11.00am Thurs 4 Feb, 11.00am Fri 5 Feb, 11.00am Wk4: Mon 8 Feb, 11.00am Wed 10 Feb, 11.00am Thurs 11 Feb, 11.00am Fri 12 Feb, 11.00am	Wk 2: Fri 29 Jan, 12noon (up to 60mins) Wk3: Fri 5 Feb, 12noon (up to 60mins) Wk4: Fri 12 Feb, 12noon (up to 60mins)	Materials Science 1 – Physical Foundations of Materials

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Random Processes & Statistical Physics	Prof. R.S. Weatherup	Wk5: Mon 15 Feb, 10.00am Wed 17 Feb, 10.00am Thurs 18 Feb, 10.00am Wk6: Mon 22 Feb, 10.00am Wed 24 Feb, 10.00am Thurs 25 Feb, 10.00am Wk7: Mon 1 Mar, 10.00am Thurs 4 Mar, 10.00am	Wk5: Mon 15 Feb, 11.00am Wed 17 Feb, 11.00am Thurs 18 Feb, 11.00am Wk6: Mon 22 Feb, 11.00am Wed 24 Feb, 11.00am Thurs 25 Feb, 11.00am Wk7: Mon 1 Mar, 11.00am Thurs 4 Mar, 11.00am	Wk5: Thurs 18 Feb, 12noon (up to 45mins) Wk6: Thurs 25 Feb, 12noon (up to 45mins) Wk7: Thurs 4 Mar, 12noon (up to 30mins)	Materials Science 1 – Physical Foundations of Materials
Wave Mechanics, Quantum Theory and Bonding	Dr R.J. Nicholls & Prof. P.D. Nellist	Wk5: Thurs 18 Feb, 11.00am Fri 19 Feb, 11.00am Wk6: Thurs 25 Feb, 11.00am Fri 26 Feb, 11.00am Wk7: Thurs 4 Mar, 11.00am Fri 5 Mar, 11.00am Wk8: Mon 8 Mar, 11.00am Wed 10 Mar, 11.00am	Wk5: Thurs 18 Feb, 12noon Fri 19 Feb, 12noon Wk6: Thurs 25 Feb, 12noon Fri 26 Feb, 12noon Wk7: Thurs 4 Mar, 12noon Fri 5 Mar, 12noon Wk8: Mon 8 Mar, 12noon Wed 10 Mar, 12noon	Wk5: Fri 19 Feb, 12noon (up to 30mins) Wk6: Fri 26 Feb, 12noon (up to 30mins) Wk7: Fri 5 Mar, 12noon (up to 30mins) Wk8: Wed 10 Mar, 12noon (up to 30mins)	Materials Science 1 – Physical Foundations of Materials
Materials Science 2: Structure and Mechanical Properties of Materials					
Defects in Crystals	Prof. M.R. Castell	Wk2: Mon 25 Jan, 11.00am Wed 27 Jan, 11.00am Thurs 28 Jan, 11.00am Fri 29 Jan, 11.00am Wk3: Mon 1 Feb, 11.00am Wed 3 Feb, 11.00am Thurs 4 Feb, 11.00am Fri 5 Feb, 11.00am	Wk2: Mon 25 Jan, 12noon Wed 27 Jan, 12noon Thurs 28 Jan, 12noon Fri 29 Jan, 12noon Wk3: Mon 1 Feb, 12noon Wed 3 Feb, 12noon Thurs 4 Feb, 12noon Fri 5 Feb, 12noon	Wk3: Mon 1 Feb, 12noon (up to 60mins) Wk4: Mon 8 Feb, 12noon (up to 60mins)	Materials Science 2: Structure & Mechanical Properties of Materials
Structures of Crystalline and Glassy Materials	Prof. M.L. Galano	Wk1: Mon 18 Jan, 11.00am Wed 20 Jan, 11.00am Thurs 21 Jan, 11.00am Fri 22 Jan, 11.00am	Wk1: Mon 18 Jan, 12noon Wed 20 Jan, 12noon Thurs 21 Jan, 12noon Fri 22 Jan, 12noon	Wk1: Fri 22 Jan, 12noon (up to 60mins)	Materials Science 2: Structure & Mechanical Properties of Materials

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Materials Science 3: Transforming Materials					
Electrochemistry	Prof. M. Pasta	Wk5: Mon 15 Feb, 8.00am Wed 17 Feb, 8.00am Thurs 18 Feb, 8.00am Fri 19 Feb, 8.00am Wk6: Mon 22 Feb, 8.00am Wed 24 Feb, 8.00am Thurs 25 Feb, 8.00am Fri 26 Feb, 8.00am	Wk5: Mon 15 Feb, 9.00am Wed 17 Feb, 9.00am Thurs 18 Feb, 9.00am Fri 19 Feb, 9.00am Wk6: Mon 22 Feb, 9.00am Wed 24 Feb, 9.00am Thurs 25 Feb, 9.00am Fri 26 Feb, 9.00am	Wk5: Fri 19 Feb, 9.00am (up to 60mins) Wk6: Fri 26 Feb, 9.00am (up to 60mins)	Materials Science 3: Transforming Materials
Maths for Materials Science					
Integration & Complex Numbers	Dr A.W. Robertson	Wk1: Mon 18 Jan, 8.00am Thurs 21 Jan, 8.00am Fri 22 Jan, 8.00am Wk2: Mon 25 Jan, 8.00am Thurs 28 Jan, 8.00am Fri 29 Jan, 8.00am Wk3: Mon 1 Feb, 8.00am Thurs 4 Feb, 8.00am Fri 5 Feb, 8.00am	Wk1: Mon 18 Jan, 9.00am Thurs 21 Jan, 9.00am Fri 22 Jan, 9.00am Wk2: Mon 25 Jan, 9.00am Thurs 28 Jan, 9.00am Fri 29 Jan, 9.00am Wk3: Mon 1 Feb, 9.00am Thurs 4 Feb, 9.00am Fri 5 Feb, 9.00am	Wk1: Fri 22 Jan, 9.00am (up to 45mins) Wk2: Fri 29 Jan, 9.00am (up to 45mins) Wk3: Fri 5 Feb, 9.00am (up to 45mins)	Y1 Maths for Materials Science
Taylor Series and Limits	Dr N. Ares	Wk4: Mon 8 Feb, 8.00am Thurs 11 Feb, 8.00am Fri 12 Feb, 8.00am	Wk4: Mon 8 Feb, 9.00am Thurs 11 Feb, 9.00am Fri 12 Feb, 9.00am	Wk4: Fri 12 Feb, 9.00am (up to 45mins)	Y1 Maths for Materials Science
Ordinary Differential Equations	Dr N. Ares	Wk5: Mon 15 Feb, 11.00am Tues 16 Feb, 11.00am Wed, 17 Feb, 11.00am Wk6: Mon 22 Feb, 11.00am Wed 24 Feb, 11.00am Wk7: Mon 1 Mar, 11.00am	Wk5: Mon 15 Feb, 12noon Tues 16 Feb, 12noon Wed, 17 Feb, 12noon Wk6: Mon 22 Feb, 12noon Wed 24 Feb, 12noon Wk7: Mon 1 Mar, 12noon	Wk6: Mon 22 Feb, 12noon (up to 60mins) Wk7: Mon 1 Mar, 12noon (up to 30mins)	Y1 Maths for Materials Science

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
SECOND YEAR					
GP1: Lifecycle, Processing & Engineering of Materials					
Materials End-of-Life	Prof. H.E. Assender & Prof. S. Lozano-Perez	Wk1: Mon 18 Jan, 9.00am Thurs 21 Jan, 9.00am Wk2: Mon 25 Jan, 9.00am Thurs 28 Jan, 9.00am Fri 29 Jan, 11.00am Wk3: Mon 1 Feb, 9.00am Thurs 4 Feb, 9.00am Fri 5 Feb, 11.00am Wk4: Mon 8 Feb, 9.00am Thurs 11 Feb, 9.00am Wk5: Mon 15 Feb, 9.00am Thurs 18 Feb, 9.00am	Wk1: Mon 18 Jan, 10.00am Thurs 21 Jan, 10.00am Wk2: Mon 25 Jan, 10.00am Thurs 28 Jan, 10.00am Fri 29 Jan, 12noon Wk3: Mon 1 Feb, 10.00am Thurs 4 Feb, 10.00am Fri 5 Feb, 12noon Wk4: Mon 8 Feb, 10.00am Thurs 11 Feb, 10.00am Wk5: Mon 15 Feb, 10.00am Thurs 18 Feb, 10.00am	Wk1: Mon 18 Jan, 10.00am (up to 15mins) Wk2: Thurs 28 Jan, 10.00am (up to 45mins) Wk3: Fri 5 Feb, 12noon (up to 60mins) Wk5: Thurs 18 Feb, 10.00am (up to 60mins)	GP1: Lifecycle, Processing & Engineering of Materials
GP2: Electronic Properties of Materials					
Semiconductor Materials & Devices	Dr M. Rothmann & Dr R.S. Bonilla	Wk4: Wed 10 Feb, 11.00am Thurs 11 Feb, 11.00am Fri 12 Feb, 11.00am Wk5: Wed 17 Feb, 11.00am Thurs 18 Feb, 11.00am Wk6: Wed 24 Feb, 11.00am Thurs 25 Feb, 11.00am Fri 26 Feb, 11.00am Wk7: Wed 3 Mar, 11.00am Thurs 4 Mar, 11.00am	Wk4: Wed 10 Feb, 12noon Thurs 11 Feb, 12noon Fri 12 Feb, 12noon Wk5: Wed 17 Feb, 12noon Thurs 18 Feb, 12noon Wk6: Wed 24 Feb, 12noon Thurs 25 Feb, 12noon Fri 26 Feb, 12noon Wk7: Wed 3 Mar, 12noon Thurs 4 Mar, 12noon	Wk4: Fri 12 Feb, 12noon (up to 45mins) Wk5: Thurs 18 Feb, 12noon (up to 30mins) Wk6: Fri 26 Feb, 12noon (up to 45mins) Wk7: Thurs 4 Mar, 12noon (up to 30mins)	GP2: Electronic Properties of Materials

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
GP3: Mechanical Properties of Materials					
Plastic Deformation of Materials	Prof E. Tarleton & Prof T.J. Marrow	Wk1: Tues 19 Jan, 9.00am Wed 20 Jan, 9.00am Wk2: Mon 25 Jan. 8.00am Tues 26 Jan, 9.00am Wed 27 Jan, 9.00am Wk3: Mon 1 Feb, 8.00am Tues 2 Feb, 9.00am Wed 3 Feb, 9.00am Wk4: Tues 9 Feb, 9.00am Wed 10 Feb, 9.00am	Wk1: Tues 19 Jan, 10.00am Wed 20 Jan, 10.00am Wk2: Mon 25 Jan. 9.00am Tues 26 Jan, 10.00am Wed 27 Jan, 10.00am Wk3: Mon 1 Feb, 9.00am Tues 2 Feb, 10.00am Wed 3 Feb, 10.00am Wk4: Tues 9 Feb, 10.00am Wed 10 Feb, 10.00am	Wk1: Wed 20 Jan, 10.00am (up to 30mins) Wk2: Wed 27 Jan, 10.00am (up to 45mins) Wk3: Wed 3 Feb, 10.00am (up to 30mins) Wk4: Wed 10 Feb, 10.00am (up to 45mins)	GP3: Mechanical Properties of Materials
Structural Failure of Materials	Prof R.I. Todd	Wk3: Wed 3 Feb, 8.00am Thurs 4 Feb, 8.00am Fri 5 Feb, 8.00am Wk4: Wed 10 Feb, 8.00am Thurs 11 Feb, 8.00am Fri 12 Feb, 8.00am Wk5: Wed 17 Feb, 8.00am Fri 19 Feb, 8.00am	Wk3: Wed 3 Feb, 9.00am Thurs 4 Feb, 9.00am Fri 5 Feb, 9.00am Wk4: Wed 10 Feb, 9.00am Thurs 11 Feb, 9.00am Fri 12 Feb, 9.00am Wk5: Wed 17 Feb, 9.00am Fri 19 Feb, 9.00am	Wk3: Fri 5 Feb, 9.00am (up to 45mins) Wk4: Fri 12 Feb, 9.00am (up to 45mins) Wk5: Fri 19 Feb, 9.00am (up to 30mins)	
GP4: Structure & Thermodynamics of Materials					
Structural & Compositional Characterisation of Materials	Prof S. Lozano-Perez	Wk5: Tues 16 Feb, 9.00am Wed 17 Feb, 9.00am Wk6: Tues 23 Feb, 9.00am Wed 24 Feb, 9.00am Thurs 25 Feb, 9.00am Wk7: Tues 2 Mar, 9.00am Wed 3 Mar, 9.00am Thurs 4 Mar, 9.00am	Wk5: Tues 16 Feb, 10.00am Wed 17 Feb, 10.00am Wk6: Tues 23 Feb, 10.00am Wed 24 Feb, 10.00am Thurs 25 Feb, 10.00am Wk7: Tues 2 Mar, 10.00am Wed 3 Mar, 10.00am Thurs 4 Mar, 10.00am	Wk5: Wed 17 Feb, 10.00am (up to 30mins) Wk6: Thurs 25 Feb, 10.00am (up to 45mins) Wk7: Thurs 4 Mar, 10.00am (up to 45mins)	GP4: Structure & Thermodynamics of Materials
Other Lectures					
Introduction to Practicals	Prof. S. Lozano-Perez	Live session via Teams: Wk1: Mon 18 Jan, 11.00am			Y2 Practical Classes

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Entrepreneurship / Business Plan	Dr S.M. Wilkinson	Wk1: Thurs 21 Jan, 2.00pm Fri 22 Jan, 2.00pm Wk2: Thurs 28 Jan, 2.00pm Wk3: Thurs 4 Feb, 2.00pm Wk4: Thurs 11 Feb, 2.00pm Wk7: Thurs 4 Mar, 2.00pm	Wk1: Thurs 21 Jan, 3.00pm Fri 22 Jan, 3.00pm Wk2: Thurs 28 Jan, 3.00pm Wk3: Thurs 4 Feb, 3.00pm Wk4: Thurs 11 Feb, 3.00pm Wk7: Thurs 4 Mar, 3.00pm	(All 20 mins) Wk1: Fri 22 Jan, 3.00pm Wk2: Thurs 28 Jan, 3.00pm Wk3: Thurs 4 Feb, 3.00pm Wk4: Thurs 11 Feb, 3.00pm Wk7: Thurs 4 Mar, 3.00pm	Entrepreneurship Coursework
Entrepreneurship / Business plan	S.P. Newbury	Wk4: Fri 12 Feb, 2.00pm	Wk4: Fri 12 Feb, 2.45pm	Wk4: Fri 12 Feb, 2.45pm	Entrepreneurship Coursework
Entrepreneurship / Business Plan – Project Clinic	Dr S.M. Wilkinson	Wk2: Fri 29 Jan – 15 mins per group between 2pm and 4pm (to sign up in advance)			Entrepreneurship Coursework
Entrepreneurship . Business Plan - Feedback sessions	Dr S.M. Wilkinson	Wk6: Thurs 25 Feb – 15 mins per groups between 2pm and 4pm (to sign up in advance)			Entrepreneurship Coursework
Industrial Lecture – TATA Steel	Representative from TATA Steel	Live sessions via Teams Thurs Wk3: 4 Feb, 12noon			MEng Materials Science - Part I
Practical Classes	Various				Y2 Practical Classes
Industrial 'Visit'	Dr E. Liotti	Live session via Teams (tbc): Wk6: Fri 26 Feb, 2.00pm – 4.00pm OR Wk7: Fri 5 Mar, 2.00pm – 4.00pm			MEng Materials Science - Part I
Industrial Placements Briefing	Dr A.O. Taylor	Live session via Teams: Wk1: Tues 19 Jan, 12.00noon – 1.00pm			MEng Materials Science - Part I
Poster Competition	Prof. S. Lozano-Perez & Others	Live session via Teams: Wk3: Fri 5 Feb, 10.00am			Y2 Practical Classes
Supplementary Subjects					
² History and Philosophy of Science: The Origins of Science	Dr J. Lidwell-Durnin	As communicated by the course convenor			
^{1,2} Quantum Chemistry	Prof D.E. Manolopoulos & Prof S.R. Mackenzie	As communicated by the course convenor			

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
THIRD YEAR					
Options Paper 2 - Lectures					
² Advanced Polymers	Prof. H.E. Assender & Dr M. Lefferts	Wk1: Wed 20 Jan, 9.00am Thurs 21 Jan, 8.00am Fri 22 Jan, 11.00am Wk2: Mon 25 Jan, 8.00am Tues 26 Jan, 11.00am Thurs 28 Jan, 8.00am Wk3: Mon 1 Feb, 8.00am Tues 2 Feb, 11.00am Wk4: Mon 22 Feb, 8.00am Wed 24 Feb, 9.00am Thurs 25 Feb, 8.00am Wk7: Mon 1 Mar, 8.00am	Wk1: Wed 20 Jan, 10.00am Thurs 21 Jan, 9.00am Fri 22 Jan, 12noon Wk2: Mon 25 Jan, 9.00am Tues 26 Jan, 12noon Thurs 28 Jan, 9.00am Wk3: Mon 1 Feb, 9.00am Tues 2 Feb, 12noon Wk4: Mon 22 Feb, 9.00am Wed 24 Feb, 10.00am Thurs 25 Feb, 9.00am Wk7: Mon 1 Mar, 9.00am	Wk1: Fri 22 Jan, 12noon (up to 45mins) Wk2: Thurs 28 Jan, 10.00am (up to 45mins) Wk3: Tues 2 Feb, 12noon (up to 30mins) Wk7: Mon 1 Mar, 10am (up to 60mins)	OP2 – Options Paper 2
² Devices	Prof. C.R.M. Grovenor & Prof. S.C. Speller	Wk1: Thurs 21 Jan, 9.00am Fri 22 Jan, 8.00am Wk2: Thurs 28 Jan, 9.00am Fri 29 Jan, 8.00am Wk3: Thurs 4 Feb, 9.00am Fri 5 Feb, 8.00am Wk6: Tues 23 Feb, 11.00am Thurs 25 Feb, 9.00am Fri 26 Feb, 8.00am Wk7: Tues 2 Mar, 11.00am Wed 3 Mar, 8.00am Thurs 4 Mar, 9.00am	Wk1: Thurs 21 Jan, 10.00am Fri 22 Jan, 9.00am Wk2: Thurs 28 Jan, 10.00am Fri 29 Jan, 9.00am Wk3: Thurs 4 Feb, 10.00am Fri 5 Feb, 9.00am Wk6: Tues 23 Feb, 11.00am Thurs 25 Feb, 10.00am Fri 26 Feb, 9.00am Wk7: Tues 2 Mar, 11.00am Wed 3 Mar, 9.00am Thurs 4 Mar, 10.00am	Wk2: Fri 29 Jan, 10.00am (up to 60mins) Wk3: Fri 5 Feb, 10.00am (up to 30mins) Wk6: Fri 26 Feb, 10.00am (up to 45mins) Wk7: Fri 5 Mar, 10.00am (up to 45mins)	OP2 – Options Paper 2

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
² Biomaterials & Natural Materials	Prof. J.T. Czernuszka	Wk2: Mon 25 Jan, 9.00am Tues 26 Jan, 9.00am Fri 29 Jan, 11.00am Wk3: Mon 1 Feb, 9.00am Tues 2 Feb, 9.00am Fri 5 Feb, 11.00am Wk6: Mon 22 Feb, 9.00am Tues 23 Feb, 9.00am Fri 26 Feb, 11.00am Wk7: Mon 1 Mar, 9.00am Tues 2 Mar, 9.00am Wed 3 Mar, 9.00am	Wk2: Mon 25 Jan, 10.00am Tues 26 Jan, 10.00am Fri 29 Jan, 12noon Wk3: Mon 1 Feb, 10.00am Tues 2 Feb, 10.00am Fri 5 Feb, 12noon Wk6: Mon 22 Feb, 10.00am Tues 23 Feb, 10.00am Fri 26 Feb, 12noon Wk7: Mon 1 Mar, 10.00am Tues 2 Mar, 10.00am Wed 3 Mar, 10.00am	Wk2: Fri 29 Jan, 12noon (up to 45mins) Wk3: Fri 5 Feb, 12noon (up to 45mins) Wk6: Fri 26 Feb, 12noon (up to 45mins) Wk7: Fri 5 Mar, 12noon (up to 45mins)	OP2 – Options Paper 2
² Advanced Engineering Alloys & Composites	Prof. M.L. Galano & Prof. D.E.J. Armstrong	Wk2: Wed 27 Jan, 11.00am Wk3: Mon 1 Feb, 11.00am Tues 2 Feb, 8.00am Wed 3 Feb, 11.00am Wk6: Mon 22 Feb, 11.00am Tues 23 Feb, 8.00am Wed 24 Feb, 11.00am Wk7: Mon 1 Mar, 11.00am Tues 2 Mar, 8.00am Wed 3 Mar, 11.00am Wk8: Mon 8 Mar, 11.00am Tues 9 Mar, 8.00am	Wk2: Wed 27 Jan, 12noon Wk3: Mon 1 Feb, 12noon Tues 2 Feb, 9.00am Wed 3 Feb, 12noon Wk6: Mon 22 Feb, 12noon Tues 23 Feb, 9.00am Wed 24 Feb, 12noon Wk7: Mon 1 Mar, 12noon Tues 2 Mar, 9.00am Wed 3 Mar, 12noon Wk8: Mon 8 Mar, 12noon Tues 9 Mar, 9.00am	Wk3: Wed 3 Feb, 12noon (up to 60mins) Wk6: Wed 24 Feb, 12noon (up to 45mins) Wk7: Wed 3 Mar, 12noon (up to 45mins) Wk8: Tues 9 Mar, 10.00am (up to 30mins)	OP2 – Options Paper 2
Materials for Energy Production, Distribution & Storage	Prof. T.J. Marrow & Dr P. Adamson	Wk1: Wed 20 Jan, 8.00am Thurs 21 Jan, 11.00am Fri 22 Jan, 9.00am Wk2: Wed 27 Jan, 8.00am Thurs 28 Jan, 11.00am Fri 29 Jan, 9.00am Wk3: Wed 3 Feb, 8.00am Thurs 4 Feb, 11.00am Fri 5 Feb, 9.00am Wk6: Wed 24 Feb, 8.00am Thurs 25 Feb, 11.00am Fri 26 Feb, 9.00am	Wk1: Wed 20 Jan, 9.00am Thurs 21 Jan, 12noon Fri 22 Jan, 10.00am Wk2: Wed 27 Jan, 9.00am Thurs 28 Jan, 12noon Fri 29 Jan, 10.00am Wk3: Wed 3 Feb, 9.00am Thurs 4 Feb, 12noon Fri 5 Feb, 10.00am Wk6: Wed 24 Feb, 9.00am Thurs 25 Feb, 12noon Fri 26 Feb, 10.00am	Wk2: Wed 27 Jan, 10.00am (up to 45mins) Wk3: Wed 3 Feb, 10.00am (up to 45mins) Wk3: Fri 5 Feb, 2.00pm (up to 30mins) Wk7: Wed 3 Mar, 10.00am (up to 45mins)	OP2 – Options Paper 2

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Options Paper 1 - Classes					
³ Nanomaterials	Class Lecturer				
Class 3	Prof. H. Bhaskaran	Live sessions via Teams: Wk1: Mon 18 Jan, 4.00pm Tues 19 Jan, 10.00am Wed 20 Jan, 2.00pm Fri 22 Jan, 2.00pm			OP1 – Options Paper 1
³ Materials & Devices for Optics & Optoelectronics	Class Lecturer				
Class 3	B. Griffiths	Live sessions via Teams: Wk1: Mon 18 Jan, 11.00am Tues 19 Jan, 2.00pm Wed 20 Jan, 4.00pm Thurs 21 Jan, 4.00pm			OP1 – Options Paper 1
³ Prediction of Materials Properties	Class Lecturer				
Class 3	Dr C.E. Patrick	Live sessions via Teams: Wk1: Mon 18 Jan, 2.00pm Tues 19 Jan, 4.00pm Wed 20 Jan, 2.00pm Thurs 21 Jan, 9.00am			OP1 – Options Paper 1
³ Engineering Ceramics: Synthesis & Properties	Class Lecturer				
Class 3	D. Andrews	Live sessions via Teams: Wk1: Mon 18 Jan, 9.00am Tues 19 Jan, 4.00pm Wed 20 Jan, 4.00pm Thurs 21 Jan, 4.00pm			OP1 – Options Paper 1

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
³ Advanced Manufacture with Metals & Alloys: Processing, Joining and Shaping	Class Lecturer				
Class 2	Dr E. Liotti	Live sessions via Teams: Wk1: Mon 18 Jan, 11.00am Tues 19 Jan, 2.00pm Thurs 21 Jan, 2.00pm Fri 22 Jan, 9.00am			OP1 – Options Paper 1
Options Paper 2 - Classes					
³ Advanced Polymers	Class Lecturer				
Class 1	Prof. H.E. Assender	Live sessions via Teams: Wk6: Mon 22 Feb, 2.00pm Tues 23 Feb, 9.00am Wed 24 Feb, 2.00pm Fri 26 Feb, 2.00pm			OP2 – Options Paper 2
Class 2	Prof. H.E. Assender	Live sessions via Teams: Wk7: Mon 1 Mar, 2.00pm Tues 2 Mar, 2.00pm Wed 3 Mar, 2.00pm Thurs 4 Mar, 11.00am			OP2 – Options Paper 2
Class 3	Dr M. Lefferts	Live sessions via Teams: Wk8: Tues 9 Mar, 10.00am Wed 10 Mar, 11.00am Thurs 11 Mar, 2.00pm Fri 12 Mar, 10.00am			OP2 – Options Paper 2
³ Devices	Class Lecturer				
Class 1	Prof. C.R.M. Grovenor	Live sessions via Teams: Wk6: Mon 22 Feb, 4.00pm Tues 23 Feb, 4.00pm Wed 24 Feb, 11.00am Fri 26 Feb, 4.00pm			OP2 – Options Paper 2
Class 2	Prof. S.C. Speller	Week 1 TT			OP2 – Options Paper 2

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
³ Biomaterials & Natural Materials	Class Lecturer				
Class 1	Prof. J.T. Czernuszka	Live sessions via Teams: Wk6: Mon 22 Feb, 2.00pm Tues 23 Feb, 4.00pm Wed 24 Feb, 9.00am Fri 26 Feb, 2.00pm			OP2 – Options Paper 2
Class 2	Prof. J.T. Czernuszka	Week 1 TT			OP2 – Options Paper 2
³ Advanced Engineering Alloys & Composites	Class Lecturer				
Class 1	Prof. M.L. Galano	Live sessions via Teams: Wk6: Thurs 25 Feb, 11.00am Wk7: Mon 1 Mar, 4.00pm Tues 2 Mar, 4.00pm Thurs 4 Mar, 4.00pm			OP2 – Options Paper 2
Class 2	Prof. D.E.J. Armstrong	Week 1 TT			
³ Materials for Energy Production, Distribution & Storage	Class Lecturer				
Class 1	Dr P. Adamson	Live sessions via Teams: Wk6: Mon 22 Feb, 9.00am Tues 23 Feb, 2.00pm Wed 24 Feb, 2.00pm Fri 26 Feb, 4.00pm			OP2 – Options Paper 2
Class 2	Prof. T.J. Marrow	Live sessions via Teams: Wk7: Tues 2 Mar, 9.00am Wed 3 Mar, 4.00pm Thur 4 Mar, 2.00pm Fri 5 Mar, 2.00pm			
Class 3	Prof. T.J. Marrow	Live sessions via Teams: Wk8: Tues 9 Mar, 2.00pm Wed 10 Mar, 9.00am Wed 10 Mar, 4.00pm Thurs 11 Mar, 10.00am			

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Other Lectures					
¹ Atomistic Modelling (two-week module)	Dr C.E. Patrick & Prof. J.R. Yates	Online throughout weeks 4&5: Monday 8 February to Friday 19 February Detailed schedule to follow			Y3 Coursework Modules
¹ Characterisation of Materials (two-week module)	Prof. M.P. Moody, Prof. M.L. Galano, Prof. N. Grobert & others	Online throughout weeks 4&5: Monday 8 February to Friday 19 February Detailed schedule to follow			Y3 Coursework Modules
Part II Open Day	Prof. A.J. Wilkinson & Prof. K.A.Q. O'Reilly	Live session via Teams: Wk6: Thurs 25 Feb, 2.00pm			MEng Materials Science - Part I
Materials PGR Poster Competition	Dr A.O. Taylor	TBC			
Industrial Placements Briefing	Dr A.O. Taylor	Live session via Teams: Wk1: Tues 19 Jan, 12.00noon – 1.00pm			MEng Materials Science - Part I
Industrial 'Visit'	Dr E. Liotti	Live session via Teams (tbc): Wk6: Fri 26 Feb, 2.00pm – 4.00pm OR Wk7: Fri 5 Mar, 2.00pm – 4.00pm			MEng Materials Science - Part I

FOURTH YEAR					
Other Lectures					
Writing Skills, Plagiarism, Laboratory Notebooks, IPR & Patents	Prof. H.E. Assender & Dr P.J. Warren	Live session via Teams: Wk3: Fri 5 Feb Session 1: 14:00-14:45 Introduction and IPR Session 2: 15:00-15:30 IT Session 3: 15:45 - 16:30 Writing styles			
Workshops on Ethics & Sustainability, in the context of Part II	Co-ordinated by Prof. S. Newbury	Live session via Teams: Groups of 5 for 1.5 hours on either: Wk9: Thurs 18 Mar or Fri 19 Mar, between 10am and 2pm TBC			Part II Research Project

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Presentation Skills: PowerPoint, Modern A/V Technology, PPT for Posters	Mr D. Baker (IT Services)	Live session via Teams: Wk2: Mon 25 Jan, 2.00-4.00pm & Tues 26 Jan, 2.00-4.00pm OR Wk3: Mon 1 Feb, 2.00-4.00pm & Tues 2 Feb, 2.00-4.00pm OR Wk4: Mon 8 Feb, 2.00-4.00pm & Tues 9 Feb, 2.00-4.00pm PLUS (Practical Tips) Wk4 Tues 9 Feb 4.00pm			Part II Research Project
Practical Tips	Dr A.O. Taylor				
Industrial Lecture – TATA Steel	Representative from TATA Steel	Live sessions via Teams Thurs Wk3: 4 Feb, 12noon			MEng Materials Science - Part I
Materials PGR Poster Competition	Dr A. O. Taylor	TBC			Part II Research Project

POSTGRADUATE					
Please also see the MPLS training webpages: www.mpls.ox.ac.uk/training/pgr					
Postgraduate training					
Safety Lecture (Compulsory for all new research workers)	Mr I.P. Bishop, Dept Safety Officer	Live session via Teams: Wk1: Wed 20 Jan, 3.30pm			PGR Teaching& Training
Hydrofluoric Acid Lectures	Mrs C. Foldbjerg Holdway	Live session via Teams: Please contact Christina for details (christina.foldbjerg@materials.ox.ac.uk)			
Laser Safety Training	University Safety Office & Physics	Please see https://safety.admin.ox.ac.uk/laser-safety (Safety Office) or https://www2.physics.ox.ac.uk/laser-safety (Physics)			

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Managing your References	RSL representative	tbc			PGR Teaching& Training
Writing Skills, Plagiarism, Laboratory Notebooks, IPR & Patents	Prof. H.E. Assender & Dr P.J. Warren	Live session via Teams: Wk3: Fri 5 Feb Session 1: 14:00-14:45 Introduction and IPR Session 2: 15:00-15:30 IT Session 3: 15:45 - 16:30 Writing styles			PGR Teaching& Training
Presentation Skills: PowerPoint, Modern A/V Technology, PPT for Posters	Mr D. Baker (IT Services)	Live session via Teams: Wk2: Mon 25 Jan, 2.00-4.00pm & Tues 26 Jan, 2.00-4.00pm OR Wk3: Mon 1 Feb, 2.00-4.00pm & Tues 2 Feb, 2.00-4.00pm OR Wk4: Mon 8 Feb, 2.00-4.00pm & Tues 9 Feb, 2.00-4.00pm			PGR Teaching& Training
Practical Tips	Dr A.O. Taylor	PLUS (Practical Tips) Wk4 Tues 9 Feb 4.00pm			
Materials PGR Poster Competition	Dr A.O. Taylor	At present it is intended to run a Poster Competition based on posters submitted digitally – an email will be sent by the DGS with further information.			PGR Teaching& Training
Materials PGR Research Talks	Drs A.O. Taylor & J.L. Hutchison + All Academic Staff	Live sessions via Teams: Wk7: Tues 2 Mar, Wed 3 Mar, Thurs 4 Mar, Fri 5 Mar - 9.00am – 6.00pm A detailed schedule for these live MS Teams video talks will be issued by the DGS.			PGR Teaching& Training
Academic Writing (for Overseas students)	Dr M. D'Angeli	Live sessions via Teams: Wk9: Mon 15 Mar – Fri 19 Mar, 2.00pm – 4.00pm Further details to follow			PGR Teaching& Training
Industrial Lecture – TATA Steel	Representative from TATA Steel	Live sessions via Teams Thurs Wk3: 4 Feb, 12noon			MEng Materials Science - Part I

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)	Canvas site where details may be found
Postgraduate lecture courses					
Imaging and Diffraction in (S)TEM	Dr J.S. Kim & Dr N.P. Young	Wk1: Wed 20 Jan, 9.00am Wk2: Wed 27 Jan, 9.00am Wk3: Mon 1 Feb, 9.00am Wed 3 Feb, 9.00am Wk4: Mon 8 Feb, 9.00am Wed 10 Feb, 9.00am Wk5: Mon 15 Feb, 9.00am Wed 17 Feb, 9.00am	Wk1: Wed 20 Jan, 10.00am Wk2: Wed 27 Jan, 10.00am Wk3 : Mon 1 Feb, 10.00am Wed 3 Feb, 10.00am Wk4: Mon 8 Feb, 10.00am Wed 10 Feb, 10.00am Wk5: Mon 15 Feb, 10.00am Wed 17 Feb, 10.00am	Wk3: Mon 1 Feb, 10.00am (up to 45mins) Wk4: Mon 8 Feb, 10.00am (up to 30mins) Wk5: Mon 15 Feb, 10.00am (up to 30mins) Wed 17 Feb, 10.00am (up to 15mins)	
^{2,4}Options Lectures and Classes					
See details for Third Year above					
Research Colloquia					
Materials Colloquia	TBC	Live sessions via Teams: Wk1: Thurs 21 Jan, 4.00pm Wk3: Thurs 4 Feb, 4.00pm Wk5: Thurs 18 Feb, 4.00pm Wk8: Thurs 11 Mar, 4.00pm			As circulated via notices@materials.ox.ac.uk
QIP Seminars		Tbc			
MML Seminars		Tbc			

¹Students 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.

²The lecture courses each have three hours of associated classes

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

⁴This course is also offered to undergraduates as a 3rd 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.