

DEPARTMENT OF MATERIALS

DIVISION OF MATHEMATICAL, PHYSICAL AND LIFE SCIENCES

Lecture List for Trinity Term 2020

NOTICE: Attention is drawn to the provisions of the University's decrees, Ch. X, Sect. XI (*Statutes, Decrees, and Regulations*, 2000, pp. 761-63), under which non-members of the University, with certain stated exemptions, may not attend university lectures (unless they are announced as open to the general public) without the payment of a fee, otherwise than by the personal invitation of the lecturer concerned. Persons who are neither reading for a qualification of this University nor otherwise exempt, and who wish to attend lectures in any term, should apply to the Fees Clerk, University Offices, Wellington Square, Oxford OX1 2JD, for details of fees. Senior visiting scholars from other universities who wish to attend lectures, seminars, or classes should normally apply to the lecturer concerned, and not to the Fees Clerk.

Lectures begin on the first possible day after the beginning of Full Term (Sunday 26 April) 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, 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.

All times are [current UK times](#)

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)
FIRST YEAR				
Introduction to Y2 Options	Dr A.O. Taylor & others	Live session via Teams: Tues 16 June. 9.30am TBC		
Materials Science 1: Physical Foundations of Materials				
Wave Mechanics, Quantum Theory & Bonding	Prof. P.D. Nellist	Wed 29 Apr, 11.30am Thurs 30 Apr, 11.30am Fri 1 May, 11.30am Mon 4 May, 11.30am	Wed 29 Apr, 12.30pm Thurs 30 Apr, 12.30pm Fri 1 May, 12.30pm Mon 4 May, 12.30pm	Wed 29 April, 12.40pm Thurs 30 Apr, 12.40pm Fri 1 May, 12.40pm Mon 4 May, 12.40pm

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)
Materials Science 2: Structure and Mechanical Properties of Materials				
Mechanical Properties	Prof. D.E.J. Armstrong	Mon 27 Apr, 9.30am Wed 29 Apr, 9.30am Thurs 30 Apr, 9.30am Fri 1 May, 9.30am Tues 5 May, 9.30am Wed 6 May, 9.30am Thurs 7 May, 9.30am Mon 11 May, 9.30am Wed 13 May, 9.30am Thurs 14 May, 9.30am Fri 15 May, 9.30am Mon 18 May, 9.30am	Mon 27 Apr, 10.30am Wed 29 Apr, 10.30am Thurs 30 Apr, 10.30am Fri 1 May, 10.30am Tues 5 May, 10.30am Wed 6 May, 10.30am Thurs 7 May, 10.30am Mon 11 May, 10.30am Wed 13 May, 10.30am Thurs 14 May, 10.30am Fri 15 May, 10.30am Mon 18 May, 10.30am	Mon 27 Apr, 10.40am Wed 29 Apr, 10.40am Thurs 30 Apr, 10.40am Fri 1 May, 10.40am Tues 5 May, 10.40am Wed 6 May, 10.40am Thurs 7 May, 10.40am Mon 11 May, 10.40am Wed 13 May, 10.40am Thurs 14 May, 10.40am Fri 15 May, 10.40am Mon 18 May, 10.40am
Materials Science 3: Transforming Materials				
Microstructure & Processing of Materials II	Prof. C.R.M. Grovenor	Mon 4 May, 8.00am Wed 6 May, 8.00am Thurs 7 May, 8.00am Mon 11 May, 8.00am Wed 13 May, 8.00am Thurs 14 May, 8.00am Fri 15 May, 8.00am Mon 18 May 8.00am	Mon 4 May, 9.00am Wed 6 May, 9.00am Thurs 7 May, 9.00am Mon 11 May, 9.00am Wed 13 May, 9.00am Thurs 14 May, 9.00am Fri 15 May, 9.00am Mon 18 May 9.00am	Mon 4 May, 9.10am Wed 6 May, 9.10am Thurs 7 May, 9.10am Mon 11 May, 9.10am Wed 13 May, 9.10am Thurs 14 May, 9.10am Fri 15 May, 9.10am Mon 18 May 9.10am
SECOND YEAR				
1. Structure and Transformations of Materials				
Ternary Phase Diagrams	Prof. C.R.M. Grovenor	Thurs 4 June, 9.30am Fri 5 June, 9.30am Thurs 11 June, 9.30am Fri 12 Jun, 9.30am	Thurs 4 June, 10.30am Fri 5 June, 10.30am Thurs 11 June, 10.30am Fri 12 Jun, 10.30am	Thurs 4 June, 10.40am Fri 5 June, 10.40am Thurs 11 June, 10.40am Fri 12 Jun, 10.40am

Subject	Lecturer	Recommended Slot – start time	Deadline by when recording must be viewed	Time of lecturer's Q&A session (Live sessions via Teams)
Powder Processing	Dr W. Cui	Tues 2 June, 9.30am Wed 3 June, 8.00am Tues 9 June, 9.30am Wed 10 June, 8.00 am	Tues 2 June, 10.30am Wed 3 June, 9.00am Tues 9 June, 10.30am Wed 10 June, 9.00 am	Tues 2 June, 10.40am Wed 3 June, 9.10am Tues 9 June, 10.400m Wed 10 June, 9.10 am
2. Electronic Properties				
Electrical & Optical Properties	Prof. A.A.R. Watt	Mon 11 May, 11.30am Tues 12 May, 9.30am Fri 15 May, 11.30am Mon 18 May, 11.30am Wed 20 May, 8.00am Fri 22 May, 11.30am Wed 27 May, 8.00am Fri 29 May, 11.30am	Mon 11 May, 12.30pm Tues 12 May, 10.30am Fri 15 May, 12.30pm Mon 18 May, 12.30pm Wed 20 May, 9.00am Fri 22 May, 12.30pm Wed 27 May, 9.00am Fri 29 May, 12.30pm	Mon 11 May, 12.40pm Tues 12 May, 10.40am Fri 15 May, 12.40pm Mon 18 May, 12.40pm Wed 20 May, 9.10am Fri 22 May, 12.40pm Wed 27 May, 9.10am Fri 29 May, 12.40pm
Tensor Properties of Materials	Prof. G.A.D. Briggs	Mon 27 Apr, 8.00am Wed 29 Apr, 8.00am Mon 4 May, 8.00am Tues 5 May, 11.30am	Mon 27 Apr, 9.00am Wed 29 Apr, 9.00am Mon 4 May, 9.00am Tues 5 May, 12.30pm	Mon 27 Apr, 9.10am Wed 29 Apr, 9.10am Mon 4 May, 9.10am Tues 5 May, 12.40pm
Magnetic Properties	Prof. J.R. Yates	Tues 28 April, 8.00am Fri 1 May, 9.30am Tues 5 May, 8.00am Wed 6 May, 8.00am	Tues 28 April, 9.00am Fri 1 May, 10.30am Tues 5 May, 9.00am Wed 6 May, 9.00am	Tues 28 April, 9.10am Fri 1 May, 10.40am Tues 5 May, 9.10am Wed 6 May, 9.10am
3. Mechanical Properties				
Mechanical Properties of Composites	Prof. J.T. Czernuszka	Tues 26 May, 9.30am Wed 27 May, 11.30am Mon 1 June, 9.30am Tues 2 June, 11.30am	Tues 26 May, 10.30am Wed 27 May, 12.30pm Mon 1 June, 10.30am Tues 2 June, 12.30pm	Tues 26 May, 10.40am Wed 27 May, 12.40pm Mon 1 June, 10.40am Tues 2 June, 12.40pm

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Macroplasticity & Mechanical Working Processes	Prof. A.J. Wilkinson	Thurs 7 May, 11.30am Thurs 14 May, 11.30am Fri 15 May, 9.30am Thurs 21 May, 11.30am Fri 22 May, 9.30am Thurs 28 May, 11.30am Fri 29 May, 9.30am Thurs 4 June, 11.30am	Thurs 7 May, 12.30pm Thurs 14 May, 12.30pm Fri 15 May, 10.30am Thurs 21 May, 12.30pm Fri 22 May, 10.30am Thurs 28 May, 12.30pm Fri 29 May, 10.30am Thurs 4 June, 12.30pm	Thurs 7 May, 12.40pm Thurs 14 May, 12.40pm Fri 15 May, 10.40am Thurs 21 May, 12.40pm Fri 22 May, 10.40am Thurs 28 May, 12.40pm Fri 29 May, 10.40am Thurs 4 June, 12.40pm
4. Engineering Applications of Materials				
Engineering Alloys	Prof. R.C. Reed	Wed 29 Apr, 9.30am Thurs 30 Apr, 8.00am Fri 1 May, 8.00am Wed 6 May, 9.30am Thurs 7 May, 8.00am Wed 13 May, 9.30am Thurs 14 May, 8.00am Fri 15 May, 8.00am Wed 20 May, 9.30am Thurs 21 May, 8.00am Fri 22 May, 8.00am Wed 3 June, 9.30am Thurs 4 June, 8.00am Fri 5 June, 8.00am	Wed 29 Apr, 10.30am Thurs 30 Apr, 9.00am Fri 1 May, 9.00am Wed 6 May, 10.30am Thurs 7 May, 9.00am Wed 13 May, 10.30am Thurs 14 May, 9.00am Fri 15 May, 9.00am Wed 20 May, 10.30am Thurs 21 May, 9.00am Fri 22 May, 9.00am Wed 3 June, 10.30am Thurs 4 June, 9.00am Fri 5 June, 9.00am	Wed 29 Apr, 10.40am Thurs 30 Apr, 9.10am Fri 1 May, 9.10am Wed 6 May, 10.40am Thurs 7 May, 9.10am Wed 13 May, 10.40am Thurs 14 May, 9.10am Fri 15 May, 9.10am Wed 20 May, 10.40am Thurs 21 May, 9.10am Fri 22 May, 9.10am Wed 3 June, 10.40am Thurs 4 June, 9.10am Fri 5 June, 9.10am
Ceramics and Glasses	Prof. J.T. Czernuszka	Mon 4 May, 9.30am Thurs 7 May, 9.30am Mon 11 May, 9.30am Wed 13 May, 11.30am Thurs 14 May, 9.30am Mon 18 May, 9.30am Tues 19 May, 9.30am Wed 20 May, 11.30am	Mon 4 May, 10.30am Thurs 7 May, 10.30pm Mon 11 May, 10.30am Wed 13 May, 12.30pm Thurs 14 May, 10.30am Mon 18 May, 10.30am Tues 19 May, 10.30am Wed 20 May, 12.30pm	Mon 4 May, 10.40am Thurs 7 May, 10.40am Mon 11 May, 10.40am Wed 13 May, 12.40pm Thurs 14 May, 10.40am Mon 18 May, 10.40am Tues 19 May, 10.40am Wed 20 May, 12.40pm
Engineering Applications of Polymers	Prof. H.E. Assender	Tues 19 May, 8.00am Thurs 21 May, 9.30am Tues 26 May, 8.00am Thurs 28 May, 9.30am	Tues 19 May, 9.00am Thurs 21 May, 10.30am Tues 26 May, 9.00am Thurs 28 May, 10.30am	Tues 19 May, 9.10am Thurs 21 May, 10.40am Tues 26 May, 9.10am Thurs 28 May, 10.40am

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THIRD YEAR				
¹Hilary Term Options (OP2) Lectures				
¹ Biomaterials & Natural Materials	Prof. J.T. Czernuszka	Mon 27 Apr, 9.30am	Mon 27 Apr, 10.30am	Mon 27 Apr, 11.00am
^{1,2}Hilary Term Options (OP2) Classes				
^{1,2} Advanced Polymers				
Class 3	Class Lecturer	Live sessions via Teams: Tues 28 Apr, 2.00pm Wed 29 Apr, 11.30am Thurs 30 Apr, 9.30am		
^{1,2} Devices				
Class 2	Class Lecturer	Live sessions via Teams: Tues 28 Apr, 4.00pm Wed 29 Apr, 2.00pm Fri 1 May, 9.30am		
^{1,2} Biomaterials & Natural Materials				
Class 1	Class Lecturer	Live sessions via Teams: Tues 28 Apr, 8.00am Fri 1 May, 11.30am		
Class 2	Class Lecturer	Live sessions via Teams: Wed 6 May, 11.30am Fri 8 May, 9.30am		
^{1,2} Advanced Engineering Alloys & Composites				
Class 2	Class Lecturer	Live sessions via Teams: Mon 27 Apr, 11.30am Tues 28 Apr, 11.30am Wed 6 May, 9.30am		
^{1,2} Materials for Energy Production, Distribution & Storage				
Class 3	Class Lecturer	Live sessions via Teams: Mon 27 Apr, 2.00pm Wed 29 Apr, 9.30am Thurs 30 Apr, 11.30am		

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POSTGRADUATE				
Postgraduate training				
¹Hilary Term Options (OP2) Lectures				
¹ Biomaterials & Natural Materials	Prof. J.T. Czernuszka	Mon 27 Apr, 9.30am	Mon 27 Apr, 10.30am	Mon 27 Apr, 11.00am
^{1,2}Hilary Term Options (OP2) Classes	See Classes for HT Third Year, above			

¹This course is 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.

²Students need to register for a specific class – details on how to do this are sent by e-mail