

General Scheme 2020/21 (21-09-20)				Grey shading = to be confirmed		
Year	Paper	Course Title	Lecturer(s)	Student Hours per Term		
				MT	HT	TT
UG Y1	Y1 Coursework & Other Elements	Induction & Tour of the Department	Prof P.D. Nellist, Prof T.J. Marrow, Ms P.J. Moss & others	3		
UG Y1	Y1 Coursework & Other Elements	Introduction to the Prelims Programme	Prof C.R.M. Grovenor	1		
UG Y1	Y1 Coursework & Other Elements	Teaching, Study Skills & Learning Development	Prof T.J. Marrow + Prof P.D. Nellist	1		
UG Y1	Y1 Coursework & Other Elements	The IOM3 - Benefits of Student Membership	S. Boad, Institute of Materials	1		
UG Y1	Y1 Coursework & Other Elements	Engineering Drawing & CAD Classes	P. Bailey (Eng Sci)		6	
UG Y1	Y1 Coursework & Other Elements	Looking to the Future - Career planning	Dr A. Evans (OUCaS)		1	
UG Y1	Y1 Coursework & Other Elements	<sup>5</sup> Foreign Language (optional)	OU Language Centre			
UG Y1	Y1 Coursework & Other Elements	<sup>5</sup> Industrial Visits (subject to availability of places)	Dr E. Liotti			
UG Y1	Y1 Coursework & Other Elements	<sup>5</sup> MatSoc Visits & Talks				
UG Y1	Y1 Coursework & Other Elements	Part I FHS Y2 Options Briefing	Prof T.J. Marrow, Ms P.J. Moss			1
UG Y1	Y1 Coursework & Other Elements	Practical Course Meetings	Prof S. Lozano-Perez	1	1	1
UG Y1	Y1 Coursework & Other Elements	Workshop on (i) Writing a Full Report on a Practical and (ii) Keeping a Good Laboratory Notebook	Prof S. Lozano-Perez	2		
UG Y1	Y1 Coursework & Other Elements	Introduction to Computing	Dr P.J. Warren	3		
UG Y1	Y1 Coursework & Other Elements	Introduction to Errors in Measurement ( 2 lectures + 1 class)	Prof J.M. Smith	2	1	
UG Y1	Y1 Coursework & Other Elements	Industrial Placements Briefing	tbc (vice AOT)		1	
UG Y1	Y1 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	tbc (vice AOT & PAJB)			1
UG Y1	Y1 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	tbc (vice AOT & PAJB)			0.25
UG Y1	Y1 Coursework & Other Elements	PC1:Practical Course (58h)	Various staff - see appendix for SDs and DSDs	22	24	12
UG Y1	Y1 Coursework & Other Elements	JCCU 1st Year 2-way feedback	Y1 JCCU Representatives	1	1	1
UG Y1	Y1 Coursework & Other Elements	Computing for Materials Science (MATLAB-based)	Prof J.R. Yates	6	6	
UG Y1	Y1 Coursework & Other Elements	Crystal model building class + Crystallography Classes	Prof M.R. Castell + Dr E. Darnbrough & Dr. T. Slater	3+9	9	
UG Y1	<b>MS1: 40L; Paper Lead = PDN</b>					
UG Y1	<b>MS1: Physical Foundations of Materials</b>	The Study of Crystalline Materials by Diffraction	Prof A.I. Kirkland	8		
UG Y1	<b>MS1: Physical Foundations of Materials</b>	Electromagnetic Properties and Devices	Prof S.C. Speller		12	
UG Y1	<b>MS1: Physical Foundations of Materials</b>	Random Processes and Statistical Physics	Prof R.S. Weatherup		8	
UG Y1	<b>MS1: Physical Foundations of Materials</b>	Wave Mechanics, Quantum Theory and Bonding	Dr R.J. Nicholls + Prof P.D. Nellist		6	6
UG Y1	<b>MS2: 40L; Paper Lead = DEJA</b>					
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Elastic Deformation	Prof A.J. Wilkinson	8		
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Structures of Crystalline and Glassy Materials	Prof M.L. Galano + Prof K.A.Q. O'Reilly	8	4	
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Defects in Crystals	Prof M.R. Castell		8	
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Mechanical Properties	Prof D.E.J. Armstrong			12
UG Y1	<b>MS3: 40L; Paper Lead = CRMG</b>					
UG Y1	<b>MS3: Transforming Materials</b>	Thermodynamics	Prof M.P. Moody	8		
UG Y1	<b>MS3: Transforming Materials</b>	Introduction to Nanomaterials	Prof N. Grobert			8
UG Y1	<b>MS3: Transforming Materials</b>	Microstructure and Processing of Materials I	Prof C.R.M. Grovenor	8		
UG Y1	<b>MS3: Transforming Materials</b>	Electrochemistry	Prof M. Pasta		8	
UG Y1	<b>MS3: Transforming Materials</b>	Microstructure and Processing of Materials II	Prof C.R.M. Grovenor			8
UG Y1	<b>MS4: 37L; Paper Lead = JRY</b>					
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Ordinary & Partial Differentiation	Dr E. Liberti	7		
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Vectors & Matrices (inc. vector calculus)	Prof S.C. Benjamin	11		
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Taylor Series and Limits	Dr N. Ares		3	
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Integration + Complex Numbers	Dr A. Robertson		5+4	
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Ordinary Differential Equations	Dr N. Ares		6	

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Year	Paper	Course Title	Lecturer(s)	Student Hours per Term		
				MT	HT	TT
UG Y2	Y2 Coursework & Other Elements	Introduction to the Pt I Materials Programme	tbc (vice Prof. C.R.M. Grovenor)	1		
UG Y2	Y2 Coursework & Other Elements	Maths - Partial Differential Equations & Fourier Series + Tensors	Prof S.C. Benjamin + tbc	8+4		
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (Understanding Intellectual Property)	Enterprising Oxford	2		
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (Workshop on 'Teams')	Dr E. Williams	2		
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (Workshop on 'Finance' & 'The Business Model Canvas')	Mr S.P. Newbury (Williams)	2		
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (Introductory Tutorial on the Business Plan Team Project)	Dr S.M. Wilkinson	3		
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (workshops)	Dr S.M. Wilkinson		4	
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (tutorials)	Dr S.M. Wilkinson		6	
UG Y2	Y2 Coursework & Other Elements	Entrepreneurship / Business Plan (case study)	Mr H. Dickinson (Nortal)			2
UG Y2	Y2 Coursework & Other Elements	Presentation Skills Workshop (Business Plan Team Presentations)	tbc (vice AOT)			1
UG Y2	Y2 Coursework & Other Elements	Business Plan Team Presentations	Mr S.P. Newbury (Williams), Mr H. Dickinson (Nortal) & tbc (vice AOT)			4
UG Y2	Y2 Coursework & Other Elements	Introduction to Industrial Visits	Dr E. Liotti	1		
UG Y2	Y2 Coursework & Other Elements	Industrial Visits	Dr E. Liotti	4	4	4
UG Y2	Y2 Coursework & Other Elements	Industrial Talks	Johnson Matthey + Rolls Royce + Tata Steel	2	2	
UG Y2	Y2 Coursework & Other Elements	<sup>5</sup> MatSoc Visits & Talks				
UG Y2	Y2 Coursework & Other Elements	Industrial Placements Briefing	tbc (vice AOT)		1	
UG Y2	Y2 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	tbc (vice AOT & PAJB)			1
UG Y2	Y2 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	tbc (vice AOT & PAJB)			0.25
UG Y2	Y2 Coursework & Other Elements	Practical Course meetings	Prof S. Lozano-Perez	1	1	1
UG Y2	Y2 Coursework & Other Elements	Practical Course (108h)	Various staff - see appendix for SDs and DSDs	36	36	36
UG Y2	Y2 Coursework & Other Elements	Poster presentation skills workshop	tbc (vice AOT) & D. Baker (OUCS)	2		
UG Y2	Y2 Coursework & Other Elements	JCCU 2nd Year 2-way feedback	Y2 JCCU Representatives	1	1	1
UG Y2	<b>GP1: Lifecycle, Processing &amp; Engineering of Materials; 38L; Paper Lead = HEA</b>					
UG Y2	GP1: Selection & Production of Engineering Materials	Materials Selection + Production of Base Materials	Prof H.E. Assender & Prof M.L. Galano (5+5)	4		6
UG Y2	GP1: Processing for Control of Materials Properties and Performance	Thermal & Chemical Treatments + Additive Manufacturing + Mechanical Treatments	Prof R.C. Reed & Prof A.J. Wilkinson			8+8
UG Y2	GP1: Materials End-of-Life	Introduction to Lifecycle of Materials + Environmental Degradation and Protection + Sustainability and Recycling	Prof H.E. Assender & Prof S. Lozano-Perez		1+8+3	
UG Y2	<b>GP2: Electronic Properties of Materials; 40L; Paper Lead = MRC</b>					
UG Y2	GP2: Electronic Properties of Materials	Electronic Structure of Materials	Dr C.E. Patrick	12		
UG Y2	GP2: Electronic Properties of Materials	Semiconductor Materials & Devices	Prof P.R. Walsh, Dr M. Rothmann & Dr R.S. Bonilla		10	
UG Y2	GP2: Electronic Properties of Materials	Magnetic Properties of Materials	Prof J.R. Yates			10
UG Y2	GP2: Electronic Properties of Materials	Electrical & Optical Properties of Materials	Prof M.R. Castell			8
UG Y2	<b>GP3: Mechanical Properties of Materials; 36L; Paper Lead = TJM</b>					
UG Y2	GP3: Elastic Deformation of Materials	Elasticity + Elastic Properties of Composites + Deformation of Polymers	Prof P.D. Nellist & Prof J.T. Czernuszka	5+2+3		
UG Y2	GP3: Plastic Deformation of Materials	Dislocations + Strengthening Mechanisms	Prof E.K.R. Tarleton & Prof T.J. Marrow		6+4	
UG Y2	GP3: Structural Failure of Materials	Fracture of Materials + Lifetime of Materials	Prof R.I. Todd & Prof R.C. Reed		8	8
UG Y2	<b>GP4: Structure &amp; Thermodynamics of Materials; 40L; Paper Lead = MPM</b>					
UG Y2	GP4: Statistical Mechanics & Thermal Properties of Materials	Statistical Mechanics & Thermal Properties of Materials	Prof J.M. Smith	8		
UG Y2	GP4: Structural & Compositional Characterisation of Materials	Structural & Compositional Characterisation of Materials	Prof M.P. Moody & Prof S. Lozano-Perez		8	8
UG Y2	GP4: Phase Transformations	Diffusion + Surfaces, Interfacial Structure and Mobility + Phase Transformations + Ternary Phase Diagrams	Prof C.R.M. Grovenor	16		
UG Y2	Supplementary Subjects & Foreign Languages	History & Philosophy of Science: The Origins of Science	Prof R. Iliffe & Dr S. Allen	8	8	
UG Y2	Supplementary Subjects & Foreign Languages	Quantum Chemistry	Prof D.E. Manolopoulos, Prof S. R. Mackenzie, Prof J.E. Mc Grady & Dr W. Barford	16	16	
UG Y2	Supplementary Subjects & Foreign Languages	Foreign Language Option	OU Language Centre			

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Year	Paper	Course Title	Lecturer(s)	Student Hours per Term		
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UG Y3	Y3 Coursework & Other Elements	Briefing for TDP (Full-time MT wks 1,2 plus presentations Fri pm MT wk3)	tbc (vice AOT)	1		
UG Y3	Y3 Coursework & Other Elements	Workshop on Team Presentation Skills ( a one-off since CVD-19 prevented the usual training associated with the non-assessed Y2 Business Plan talks for this Y3 cohort)	Dr A.O. Taylor	1		
UG Y3	Y3 Coursework & Other Elements	TDP workshop on Markets & Market Disruptors	Mr S.P. Newbury (Williams)	1		
UG Y3	Y3 Coursework & Other Elements	TDP Presentations	FHS Examiners & others	4		
UG Y3	Y3 Coursework & Other Elements	Briefing for Characterisation/Modelling Courses	Prof M.P. Moody & Prof J.R. Yates	1		
UG Y3	Y3 Coursework & Other Elements	Introduction to Modelling in Materials Science (Taught elements full-time MT wk6; project work in parallel with OP1 lectures/classes MT wks 7,8)	Prof J.R. Yates + Prof R. Drautz + tbc	56?	56	
UG Y3	Y3 Coursework & Other Elements	Advanced Characterisation of Materials (Full-time HT wks 4,5)	Prof M.P. Moody, Prof M.L. Galano, Prof N. Grobert (includes specified lectures by CSA, PDN(2), tbc - vice SGR, JMT, tbc - vice KP, SCS & tbc SLP).		58?	
UG Y3	Y3 Coursework & Other Elements	Atomistic Modelling (Full-time HT wks 4,5)	Dr C.E. Patrick & Prof. J.R. Yates		56?	
UG Y3	Y3 Coursework & Other Elements	Industrial Visits	Dr E. Liotti	4	4	
UG Y3	Y3 Coursework & Other Elements	<sup>5</sup> MatSoc Visits & Talks				
UG Y3	Y3 Coursework & Other Elements	Part II External Projects	Prof K.A.Q. O'Reilly	1		
UG Y3	Y3 Coursework & Other Elements	Part II Open Day	Prof K.A.Q. O'Reilly & Prof P.D. Nellist		3	
UG Y3	Y3 Coursework & Other Elements	DPhil Poster Competition	Dr A.O. Taylor		2	
UG Y3	Y3 Coursework & Other Elements	Workshop on Answering Finals Exam Questions (normally TT wk 0)	Prof T.J. Marrow	2		
UG Y3	Y3 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	tbc (vice AOT & PAJB)			1
UG Y3	Y3 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	tbc (vice AOT & PAJB)			0.25
UG Y3	Y3 Coursework & Other Elements	Industrial Placements Briefing	tbc (vice AOT)		1	
UG Y3	Y3 Coursework & Other Elements	Super-Collections' Feedback	Various Staff	4		
UG Y3	Y3 Coursework & Other Elements	JCCU 3rd Year 2-way feedback	Y3 JCCU Representatives	1	1	
UG Y3	OP1: Materials Options Lecture Courses; candidates select three from five lecture courses (each comprising 12 lectures and 3 tutorial classes). Taught mainly during MT wks 3,4,5,7,8 & HT wk1					
UG Y3	OP1 Materials Options 1	Materials & Devices for Optics & Optoelectronics	Prof J.M. Smith	12		
UG Y3	OP1 Materials Options 1	Nanomaterials	Prof N. Grobert + Prof. K. Porfyrakis + Prof H. Bhaskaran	4+4+4		
UG Y3	OP1 Materials Options 1	Prediction of Materials Properties	Dr C.E. Patrick	12		
UG Y3	OP1 Materials Options 1	Engineering Ceramics: Synthesis & Properties	Prof R.I. Todd	12		
UG Y3	OP1 Materials Options 1	Advanced Manufacture with Metals & Alloys: Processing, Joining & Shaping	Dr E. Liotti + Prof K.A.Q. O'Reilly	6+6		
UG Y3	OP2: Materials Options Lecture Courses; candidates select three from five lecture courses (each comprising 12 lectures and 3 tutorial classes). Taught mainly during HT wks 1,2,3,6,7,8 & TT wk1					
UG Y3	OP2 Materials Options 2	Advanced Engineering Alloys & Composites	Prof M.L. Galano + Prof D.E.J. Armstrong		7+5	
UG Y3	OP2 Materials Options 2	Devices	Prof C.R.M. Grovenor + Prof S.C. Speller + Prof P.R. Wilshaw		4+4+4	
UG Y3	OP2 Materials Options 2	Biomaterials & Natural Materials	Prof J.T. Czernuszka		12	
UG Y3	OP2 Materials Options 2	Advanced Polymers	Prof H.E. Assender + Dr M. Lefferts		8+4	
UG Y3	OP2 Materials Options 2	Materials for Energy Production, Distribution & Storage	Prof T.J. Marrow + Dr P. Adamson		6+6	

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UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<b>MS Pt II Induction &amp; Project Management</b>	Prof K.A.Q. O'Reilly & G. Litchfield (QinetiQ)	7		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<b>Information Skills. Managing Your References</b>	L. Ristic (RSL)	2		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<b>Workshops on Ethics &amp; Sustainability, in the context of Part II</b>	Prof L. Brimacombe & Dr S. Job (coordinated by Mr S.P. Newbury)	3	6	
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<b>Workshop on Engineering/Scientific Context in respect of Part II Projects</b>	Prof R.C. Reed	1		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	DPhil Open Day	Dr A.O. Taylor & Prof P.D. Nellist	2		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Part II Writing Skills, Plagiarism, Laboratory Notebooks, IPR and Patents	Prof H. E. Assender & Dr P.J. Warren		3	
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	MatLab Introduction (Refresher) + 'Next-level' (special version delivered in TT20)	Prof J.R.Yates	3+3		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	LabVIEW Introduction (Refresher)	Prof A.A.R. Watt & Dr F. Vigneau & tbc	3		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Patent Literature	tbc (RSL)	2		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Presentation Skills: PowerPoint, Modern A/V Technology, PPT for Posters, Practical Tips	Dr A.O. Taylor & D. Baker (OUCS)		6	
UG Y4	<b>Y4 Coursework &amp; Other Elements</b>	DPhil Poster Competition	Dr A.O. Taylor		2	
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Technology & Knowledge Transfer	Chim Chu & others (ISIS Innovation) tbc			2
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<b>MS Part II talks</b>	Prof K.A.Q. O'Reilly & others			14
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Careers & Networking Evening with Alumni	Dr A.O. Taylor & others	2		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<sup>6</sup> Foreign Language	OU Language Centre			
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<sup>5</sup> Industrial Visits (subject to availability of places)	Dr E. Liotti	4	4	4
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<sup>6</sup> MatSoc Visits & Talks				
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	The OU Careers Service - Active Job Hunting	Dr A. Evans (OUCaS)	1		
UG Y4	<b>Y4 Coursework &amp; Other Elements</b>	JCCU 4th Year 2-way feedback	Y4 JCCU Representatives	1	1	

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Year	Paper	Course Title	Lecturer(s)	Student Hours per Term		
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PGR	Postgraduate Training (bold = compulsory)	Safety (Compulsory for new students)	Ian Bishop	1	1	1
PGR	Postgraduate Training (bold = compulsory)	Hydrofluoric Acid Safety	tbc Dr P.A.J. Bagot	1	1	1
PGR	Postgraduate Training (bold = compulsory)	Laser Safety	Dept of Physics	2	1	1
PGR	Postgraduate Training (bold = compulsory)	Induction course for Postgraduate students	Dr A.O. Taylor & others	9		
PGR	Postgraduate Training (bold = compulsory)	Intro to the MPLSD Graduate School and Grad Academic Programme (GAP)	Prof D. Gavaghan		1	
PGR	Postgraduate Training (bold = compulsory)	The IOM3 - Benefits of Student Membership	S. Boad, Institute of Materials	1		
PGR	Postgraduate Training (bold = compulsory)	Dept. of Materials Mechanical Workshop - Induction & Safety	Les Chorley & others	1	1 <sup>4</sup>	
PGR	Postgraduate Training (bold = compulsory)	Looking to the Future - What do Employers Seek?	tbc (OUCaS), Dr A.O. Taylor, tbc (vice Rolls Royce), Dr M. Saran (HSBC)	2		
PGR	Postgraduate Training (bold = compulsory)	Optical Microscopy	Prof P.D. Nellist	2		
PGR	Postgraduate Training (bold = compulsory)	Information Skills	tbc (RSL)	2		
PGR	Postgraduate Training (bold = compulsory)	Managing your References	tbc (RSL)		2	
PGR	Postgraduate Training (bold = compulsory)	Patent Literature	tbc (RSL)	2		
PGR	Postgraduate Training (bold = compulsory)	X-ray Diffractometry	Prof. S.C. Speller	2		
PGR	Postgraduate Training (bold = compulsory)	Project Management	Dr P.D. Warren (NSG) & Dr A.O. Taylor	4		
PGR	Postgraduate Training (bold = compulsory)	Presentation Skills: PowerPoint, Modern A/V Technology, PowerPoint for Posters, Practical Tips	D. Baker (OUCS) & Dr A.O. Taylor		6	
PGR	Postgraduate Training (bold = compulsory)	2nd Year DPhil Talks	Drs A.O. Taylor & J.L. Hutchison + All Academic Staff		~2	
PGR	Postgraduate Training (bold = compulsory)	Writing Skills, Plagiarism, Laboratory Notebooks, IPR & Patents	Prof H. E. Assender & Dr P.J. Warren		3	
PGR	Postgraduate Training (bold = compulsory)	Academic Writing (for overseas students)	tbc (OULC)		10	
PGR	Postgraduate Training (bold = compulsory)	The OU Careers Service - Active Job Hunting	Dr A. Evans (OUCaS)	1		
PGR	Postgraduate Training (bold = compulsory)	Careers & Networking Evening with Alumni	Dr A.O. Taylor & others	2		
PGR	Postgraduate Training (bold = compulsory)	Industrial Visits (subject to availability of places)	Dr E. Liotti	4	4	4
PGR	Postgraduate Training (bold = compulsory)	Industrial Talks	Johnson Matthey + Rolls Royce + Tata Steel	2	2	
PGR	Postgraduate Training (bold = compulsory)	MatSoc Visits & Talks				
PGR	Postgraduate Training (bold = compulsory)	Poster Presentation Skills & DPhil Poster Competition	Dr A.O. Taylor	1	4	
PGR	Postgraduate Training (bold = compulsory)	Foreign Language	OU Language Centre			
PGR	Postgraduate Training (bold = compulsory)	Technology & Knowledge Transfer tbc	Chim Chu & others (ISIS Innovation) tbc			2
PGR	Postgraduate Training (bold = compulsory)	Preparing an Article for Submission to a Materials Journal	Prof R.I. Todd			1
PGR	Postgraduate Training (bold = compulsory)	Teaching Skills: Tutoring Maths Classes	Prof J.R. Yates	3		
PGR	Postgraduate Training (bold = compulsory)	Teaching Skills: Materials Options Classes (this workshop is run only if required)	Prof M.L. Galano		3	
PGR	Postgraduate Training (bold = compulsory)	Teaching Skills: Tutoring Materials Science	Prof S.C. Speller	3		
PGR	Postgraduate Training (bold = compulsory)	Teaching Skills: Junior Demonstrating	Prof S. Lozano-Perez & tbc	3		
PGR	Postgraduate Training (bold = compulsory)	Teaching Skills: Delivering a UG Lecture Course (this workshop is run only if required)	tbc (Vice AOT)	3		
PGR	Postgraduate Training (bold = compulsory)	MatLab Introduction	tbc	3		
PGR	Postgraduate Training (bold = compulsory)	LabVIEW Introduction	Prof A.A.R. Watt & Dr F. Vigneau & tbc	3		
PGR	Postgraduate Training (bold = compulsory)	Owning a successful DPhil	JCCG	2		
PGR	Modular training in electron microscopy	<sup>6</sup> Advanced microanalysis	tbc			8
PGR	Modular training in electron microscopy	<sup>6</sup> WDS and quantitative X-ray Analysis	Dr C.J. Salter			11
PGR	Modular training in electron microscopy	<sup>6</sup> Electron Backscattering Diffraction (EBSD)	Dr P. Karamched, Dr G.M. Hughes & J. Holter	2+6		
PGR	Modular training in electron microscopy	<sup>6</sup> Focussed ion-beam milling (FIB)	Dr G.M. Hughes	5	5	5
PGR	Modular training in electron microscopy	<sup>6</sup> Analysis of HREM Images	Dr N.P. Young		6	
PGR	Postgraduate lecture courses	Foundation Topics for Electron Microscopy	Dr N.P. Young, Dr G.M. Hughes + Prof P.D. Nellist	4+2+2		
PGR	Postgraduate lecture courses	Spectroscopy with the (S)TEM	tbc, Dr R.J. Nicholls & tbc		5+2+1	
PGR	Postgraduate lecture courses	Microscopy & Analysis of Surfaces	Dr C.S. Allen	8		
PGR	Postgraduate lecture courses	Imaging & Diffraction in (S)TEM	tbc Dr J.S. Kim + Dr N.P. Young		4+4	

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PGR	Postgraduate lecture courses	Scientific Computing tbc	Prof N. Trefethen (Computing Lab)	12	12	
PGR	Postgraduate lecture courses	Early Metallurgy tbc	Dr C.J. Salter		8	
PGR	Postgraduate lecture courses	Fusion CDT: Lectures + Classes (at York)	Prof D.E.J. Armstrong, & tbc	8+4+6		
PGR	Postgraduate lecture courses	Fusion CDT: Materials for Fusion	Prof D.E.J. Armstrong & others	?		
PGR	Postgraduate lecture courses	Fusion CDT: Radiation Damage + classes	tbc	13+6		
PGR	Postgraduate lecture courses	Fusion CDT: Analytical Tools	Dr N.P. Young & others + Practicals		8+18	
PGR	Postgraduate lecture courses	Introduction to Quantum Information Processing	Prof S.C. Benjamin + tbc	6+2+1		
PGR	Postgraduate lecture courses	<sup>3</sup> Materials & Devices for Optics & Optoelectronics	Prof J.M. Smith	12		
PGR	Postgraduate lecture courses	<sup>3</sup> Nanomaterials	Prof N. Grobert + Prof. K. Porfyrakis + Prof H. Bhaskaran	4+4+4		
PGR	Postgraduate lecture courses	<sup>3</sup> Prediction of Materials Properties	Dr C.E. Patrick	12		
PGR	Postgraduate lecture courses	<sup>3</sup> Engineering Ceramics: Synthesis & Properties	Prof R.I. Todd	12		
PGR	Postgraduate lecture courses	<sup>3</sup> Advanced Engineering Alloys & Composites	Prof. M.L. Galano + Prof D.E.J. Armstrong		7+5	
PGR	Postgraduate lecture courses	<sup>3</sup> Advanced Manufacture with Metals & Alloys: Processing, Joining & Shaping	Dr E. Liotti + Prof K.A.Q. O'Reilly	6+6		
PGR	Postgraduate lecture courses	<sup>3</sup> Devices	Prof C.R.M. Grovenor + Prof S.C. Speller + Prof P.R. Wilshaw		4+4+4	
PGR	Postgraduate lecture courses	<sup>3</sup> Biomaterials & Natural Materials	Prof J.T. Czernuszka		12	
PGR	Postgraduate lecture courses	<sup>3</sup> Advanced Polymers	Prof H.E. Assender + Dr M. Lefferts		8+4	
PGR	Postgraduate lecture courses	<sup>3</sup> Materials for Energy Production, Distribution & Storage	Prof T.J. Marrow + Dr P. Adamson		6+6	
PGR	Research Colloquia	Materials Colloquia	Various	4	4	2
PGR	Research Colloquia	MML Seminars	Various	8	8	8
PGR	Research Colloquia	Begbroke Science Forum	Various	?	?	?
PGR	Research Colloquia	QIP Seminars	Various	4	4	4

General Scheme 2020/21 (21-09-20)				Grey shading = to be confirmed		
Year	Paper	Course Title	Lecturer(s)	MT	HT	TT
APPENDIX 1 - PRACTICAL COURSES						
	PRACTICAL	SD	DSD			
UG Y1	1P1a: Introduction to IT Tools	PJW, Rob Saunders	n/a	3		
UG Y1	1P1b: Introduction to Optical Microscopy	KAQOR	SLP	3		
UG Y1	1P2: Introduction to MATLAB and LabVIEW	AARW & RSB	n/a	6		
UG Y1	1P3: Young's Modulus & Stress Analysis (Acta-style write-up, formative only)	JMS & PDN	n/a	6.75		
UG Y1	1P4: Metallography	tbc P. Karamched	tbc	6		
UG Y1	1P5: Polymers - Molecular Weight Effects	AARW	HEA		6	
UG Y1	1P6: Thermal Analysis (Acta-style write-up, summative)	E. Liotti	KAQOR		6	
UG Y1	1P7: Bubble Raft	tbc	SCB		6	
UG Y1	1P8: Electrode Potentials (Acta-style write-up, summative)	tbc	PRW		6	
UG Y1	1P9: Energy Levels & Band Gaps	PRW	JMS			6
UG Y1	1P10: Fabrication & Tensile Testing	JTC	tbc			6
	NB. Y2 pracs renumbered as per new sequence					
UG Y2	2P1: Materials Selection (Peer-reviewed Poster 'write-up', formative only)	DEJA	tbc	10		
UG Y2	2P2: Steels	C.J. Salter	TJM	9		
UG Y2	2P3: Extrusion	HEA	AARW	9		
UG Y2	2P4: Casting (Acta-style write-up, summative)	MRC	JTC	9		
UG Y2	2P5: Dislocations & Plasticity	KAQOR	tbc		9	
UG Y2	2P6: Diffusion (Acta-style write-up, summative)	J. Haley	TJM		9	
UG Y2	2P7: Mechanical Properties of Polymers	RSB	tbc		9	
UG Y2	2P8: Corrosion	TJM	MLG		9	
UG Y2	2P9: X-ray Diffraction Detective	SCS	MRC			9
UG Y2	2P10: TEM (non-assessed training exercise)	tbc & J. Haley	n/a			9
UG Y2	2P11: SEM & Fracture	tbc P. Karamched	AJW			9
UG Y2	2P12: Semiconductor Devices (Acta-style write-up, summative)	tbc M. Danaie	AJW			9

General Scheme 2020/21 (21-09-20)				Grey shading = to be confirmed		
Year	Paper	Course Title	Lecturer(s)	Student Hours per Term		
				MT	HT	TT
	APPENDIX 2: LEAD ROLES IN TEACHING 2020/21					
	ROLE	STAFF MEMBER				
	Chair of Faculty	tbcc (election in MT21)				
	Chair of DMAC	TJM				
	Chair of Tutors' Committee	MPM				
	DUGS (Head of UG Teaching)	TJM				
	DGS	AOT				
	Chair of MGSC (Materials Grad Studies Cttee)	AOT				
	Chair (Deputy Chair) of Prelims Moderators	DEJA (JTC)				
	Chair (Deputy Chair) of FHS Examiners	KAQOR (SCB)				
	UG Admissions Coordinator	AOT				
	Practical Courses Organiser	SLP				
	Part II Organiser	KAQOR				
	Industrial Visits Organiser	E. Liotti				
	Supplementary Subjects & Foreign Language Options Organiser	PJM				
	Summer Exchanges & Placements Organiser	tbcc				
	Industrial Tour Organiser	AOT				
	MS1 Lead and Crystallography Organiser	PDN				
	MS2 Lead	DEJA				
	MS3 Lead	CRMG				
	MS4 Lead and Maths, Computing & Modelling Organiser	JRY				
	GP1 Lead	HEA				
	GP2 Lead	MRC				
	GP3 Lead	TJM				
	GP4 Lead	MPM				
	Entrepreneurship & Engineering in Society Organiser	HB				
	Team Design Projects Organiser	AARW				
	Characterisation Module Organiser	MPM				
	Introduction to Modelling Module Organiser	JRY				
	Atomistic Modelling Module Organiser	CEP				
	EM Training Organiser (Part II & PGR)	NPY				
	MSc in Energy PGT programme - Materials Lead	AARW				
	Fusion CDT - Oxford Materials Coordinator	DEJA				