

General Scheme 2019/20 (3-10-19)				Grey shading = to be confirmed		
Year	Paper	Course Title	Lecturer(s)	MT	HT	TT
UG Y1	Y1 Coursework & Other Elements	Induction & Tour of the Department	Prof P.D. Nellist, Dr A.O. Taylor, 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	Dr A.O. Taylor + 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)	tbc			
UG Y1	Y1 Coursework & Other Elements	<sup>5</sup> MatSoc Visits & Talks				
UG Y1	Y1 Coursework & Other Elements	Part I Options Briefing	Dr A.O. Taylor, 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	Dr A.O. Taylor		1	
UG Y1	Y1 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	Dr A.O. Taylor & Dr P.A.J. Bagot			1
UG Y1	Y1 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	Dr A.O. Taylor & Dr P.A.J. Bagot			0.25
UG Y1	Y1 Coursework & Other Elements	PC1:Practical Course (63h)	Various staff - see appendix for SDs and DSDs	22	25	13
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	P. Chen (vice MRC) + Dr E. Darnbrough & P. Chen	3+9	9	
UG Y1	<b>MS1: 40h; 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. 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		8	4
UG Y1	<b>MS2: 40h; 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 K.A.Q. O'Reilly + Prof M.L. Galano	8	4	
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Defects in Crystals	P. Chen (vice MRC)		8	
UG Y1	<b>MS2: Structure and Mechanical Properties of Materials</b>	Mechanical Properties	Prof D.E.J. Armstrong			12
UG Y1	<b>MS3: 40h; 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: 43h; Paper Lead = JRY</b>					
	<b>MS4: Mathematics for Materials Science</b>	Introduction to Maths & Computing for Materials Science	Prof J.R. Yates	1		
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	Prof S.C. Benjamin	12		
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	Dr A. Robertson		6	
UG Y1	<b>MS4: Mathematics for Materials Science</b>	Complex Numbers	Dr A. Robertson		6	
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	Prof C.R.M. Grovenor	1		
UG Y2	Y2 Coursework & Other Elements	Maths - Partial Differential Equations & Fourier Series	Prof S.C. Benjamin	8		
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)	Dr A.O. Taylor			1
UG Y2	Y2 Coursework & Other Elements	Business Plan Team Presentations	Mr S.P. Newbury (Williams), Mr H. Dickinson (Nortal) & Dr A.O. Taylor			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	Dr A.O. Taylor		1	
UG Y2	Y2 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	Dr A.O. Taylor & Dr P.A.J. Bagot			1
UG Y2	Y2 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	Dr A.O. Taylor & Dr P.A.J. Bagot			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 (117h)	Various staff - see appendix for SDs and DSDs	39	39	39
UG Y2	Y2 Coursework & Other Elements	Poster presentation skills workshop	Dr A.O. Taylor & D. Baker (OUCS)	2		
UG Y2	Y2 Coursework & Other Elements	JCCU 2nd Year 2-way feedback	Y2 JCCU Representatives	1	1	1
UG Y2	GP1 Structure & Transformation	Surfaces & Interfaces	P. Chen (vice MRC)	4		
UG Y2	GP1 Structure & Transformation	Phase Transformations & Diffusion	Prof C.R.M. Grovenor + Dr Y. Gong + Prof C.R.M. Grovenor	1+5+10		
UG Y2	GP1 Structure & Transformation	Corrosion & Protection	Prof S. Lozano-Perez		8	
UG Y2	GP1 Structure & Transformation	Ternary Phase Diagrams	Prof C.R.M. Grovenor			4
UG Y2	GP1 Structure & Transformation	Microstructures of Polymers	G. Matthews		4	
UG Y2	GP1 Structure & Transformation	Powder Processing	Dr W. Cui			4
UG Y2	GP2 Electronic Properties of Materials	Tensor Properties of Materials	Prof G.A.D. Briggs			4
UG Y2	GP2 Electronic Properties of Materials	Quantum & Statistical Mechanics	Prof J.M. Smith	12		
UG Y2	GP2 Electronic Properties of Materials	Electronic Structure of Materials	Dr C. Patrick		8	
UG Y2	GP2 Electronic Properties of Materials	Semiconductor Materials	Prof P.R. Wilshaw		6	
UG Y2	GP2 Electronic Properties of Materials	Magnetic Properties	Prof J.R. Yates			4
UG Y2	GP2 Electronic Properties of Materials	Electrical & Optical Properties	Prof P.R. Wilshaw			8
UG Y2	GP3 Mechanical Properties	Elastic Behaviour in Isotropic Materials	Prof P.D. Nellist	4		
UG Y2	GP3 Mechanical Properties	Microplasticity	Dr E.K.R. Tarleton + Prof T.J. Marrow	6+4		
UG Y2	GP3 Mechanical Properties	Creep	Prof R.I. Todd		4	
UG Y2	GP3 Mechanical Properties	Macroplasticity & Mechanical Working Processes	Prof A.J. Wilkinson			8
UG Y2	GP3 Mechanical Properties	Fracture	Prof R.I. Todd		8	
UG Y2	GP3 Mechanical Properties	Mechanical Properties of Polymers	Prof H.E. Assender		4	
UG Y2	GP3 Mechanical Properties	Mechanical Properties of Composites	Prof J.T. Czernuszka			4
UG Y2	GP4 Engineering Applications of Materials	Microstructural Characterisation of Materials	Dr N.P. Young	8		
UG Y2	GP4 Engineering Applications of Materials	Semiconductor Devices	Prof P.R. Wilshaw		6	
UG Y2	GP4 Engineering Applications of Materials	Engineering Alloys	Prof R.C. Reed			14
UG Y2	GP4 Engineering Applications of Materials	Ceramics & Glasses	Prof J.T. Czernuszka			8
UG Y2	GP4 Engineering Applications of Materials	Engineering Applications of Polymers	Prof H.E. Assender			4
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	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	Advanced Characterisation of Materials	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 & SLP).		58	
UG Y3	Y3 Coursework & Other Elements	Introduction to Modelling in Materials Science	Prof J.R. Yates + Prof R. Drautz		56	
UG Y3	Y3 Coursework & Other Elements	Industrial Visits	tbc	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	Prof T.J. Marrow			2
UG Y3	Y3 Coursework & Other Elements	Summer Exchange Risk Assessment and Safety Briefing	Dr A.O. Taylor & Dr P.A.J. Bagot			1
UG Y3	Y3 Coursework & Other Elements	Individual Review of Summer Exchange Risk Assessments	Dr A.O. Taylor & Dr P.A.J. Bagot			0.25
UG Y3	Y3 Coursework & Other Elements	Industrial Placements Briefing	Dr A.O. Taylor		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 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. 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 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	3	
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'	G. Matthews	3+3		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	LabVIEW Introduction (Refresher)	Dr F. Vigneau & Dr Z. Cheng	3		
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	Patent Literature	L. Ristic (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>5</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)	tbc	4	4	4
UG Y4	<b>Y4 Other Elements (bold = compulsory for MS)</b>	<sup>5</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)	Dr P.A.J. Bagot	1	1	1
PGR	Postgraduate Training (bold = compulsory)	Hydrofluoric Acid Safety	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?	Dr R. Bray (OUCaS), Dr A.O. Taylor, Dr A. Norton (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	L. Ristic (RSL)	2		
PGR	Postgraduate Training (bold = compulsory)	Managing your References	L. Ristic (RSL)		2	
PGR	Postgraduate Training (bold = compulsory)	Patent Literature	L. Ristic (RSL)	2		
PGR	Postgraduate Training (bold = compulsory)	X-ray Diffractometry	Prof C.R.M. Grovenor	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		-24	
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)	tbc	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)	Dr A.O. Taylor	3		
PGR	Postgraduate Training (bold = compulsory)	MatLab Introduction	G. Matthews	3		
PGR	Postgraduate Training (bold = compulsory)	LabVIEW Introduction	Dr F. Vigneau & Dr Z. Cheng	3		
PGR	Postgraduate Training (bold = compulsory)	Owning a successful DPhil	JCCG	2		

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PGR	Modular training in electron microscopy	<sup>6</sup> Advanced microanalysis	Prof S. Lozano-Perez			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	Prof J.M. Titchmarsh, Dr R.J. Nicholls & Prof S. Lozano-Perez		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	Dr J. Kim + Dr N.P. Young		4+4	
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	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. 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

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<b>APPENDIX 1 - PRACTICAL COURSES</b>						
	<b>PRACTICAL</b>	<b>SD</b>	<b>DSD</b>			
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	tbc	6		
UG Y1	1P3: Young's Modulus & Stress Analysis (Acta-style write-up, formative only)	JMS & PDN	TJM	6.75		
UG Y1	1P4: Metallography	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		6.75	
UG Y1	1P7: Bubble Raft	SCB	tbc		6	
UG Y1	1P8: Electrode Potentials (Acta-style write-up, summative)	tbc	PRW		6.75	
UG Y1	1P9: Energy Levels & Band Gaps	PRW	JMS			6
UG Y1	1P10: Fabrication & Tensile Testing	JTC	tbc			6
UG Y2	2P2: Dislocations	Bo-Shiuan Li	JTC	9.75		
UG Y2	2P9: Steels	C.J. Salter	TJM	9.75		
UG Y2	2P10: Materials Selection (Peer-reviewed Poster 'write-up', formative only)	DEJA	tbc	10		
UG Y2	2P3: Casting	KAQOR	tbc	9.75		
UG Y2	2P6: Extrusion	tbc	AJW tbc		9.75	
UG Y2	2P7: Corrosion	tbc	TJM		9.75	
UG Y2	2P1: Diffusion	TJM	MLG		9.75	
UG Y2	2P12: Semiconductors	RSB	tbc		9.75	
UG Y2	2P4: X-ray Diffraction	SCS	tbc (vice MRC)			9.75
UG Y2	2P5: SEM & Fracture	P. Karamched	AJW			9.75
UG Y2	2P8: TEM	Z. Shen & J. Haley	n/a			9.75
UG Y2	2P11: Mechanical Properties of Polymers	HEA	AARW			9.75

