Mapping of Graduate School Doctoral Courses to Professional Competencies for CPhys.

Requirements: M = Mandatory, O = Optional and R = Recommended

M¹ = Recommended for appointed student representatives

Programme Group & Course Title:	Mapping	Year	CPhys. Comp.
Research Communication Programme:			
Thesis Writing Retreat	0	3 rd	A(a), D(a)
A Scientific Approach to Research Communication	0	1 st	A(a), D(a)
Literature Review	М	1 st	A(a), D(b)
Publication (BEPS/MLSPD)	0	Any	A(a), A(3), D(a),
Thesis	М	2 nd /3 rd	D(b)
Grant Applications	0	Any	A(b), A(c), D(a),
Critical Thinking for communication	0	Any	A(c), D(d)
Poster Top Tips	0	1 st	A(c), D(d)
Present your Poster!	М	1 st	A(a), A(c), D(b)
Conferences and Seminars	М	2 nd	D(a)
Advanced Presentations	М	3 rd	D(a), D(b)
Preparing for thesis submission, examination and Open	0	3 rd /4 th	A(7), D(a), D(b)
Access Q&A			
Research Impact Programme			
Understanding Impact and How to Achieve It	R	2 nd /3 rd	A(7), D(d)
Bibliometrics and Demonstrating Academic Impact	0	2nd/3rd	A(7), D(d)
Communicating Research in Schools	0	Any	A(2), A(8)
Publishing Open Access: Your Research and Thesis	0	Any	A(a), A(3), A(8),
			D(a)
Core Public Engagement MasterClass: Exploring Planning	0	Any	A(8), D(a)
and Evaluating Engagement			
Preprints and Open Peer Review	0	Any	A(a), A(3), D(a),
Research Computing & Data Science Programme			
Basic Statistics	R	Any	A(a)
Data Processing with Python Pandas	0	Any	A(a)
Data Exploration and Visualisation	R	Any	A(a)
Data Processing with R	0	Any	A(a)
Further Hypothesis Testing	0	Any	A(a)
Introduction to Machine Learning	0	Any	A(a)
Introduction to Sampling & Hypothesis Testing	0	Any	A(a)
Introduction to Statistics Using SPSS.	0	Any	A(a)
Machine Learning with Python	0	Any	A(a)
Introduction to R	0	Any	A(a)
Regression Modelling in R	R	Any	A(a)
Introduction to C++	0	Any	B(b)
Introduction to Fortran	0	Any	B(b)
Introduction to HPC at Imperial	0	Any	B(b)
Introduction to Julia	0	Any	B(b)

Introduction to LaTeX	R	Any	B(b)
Introduction to MATLAB	R ³	Any	B(b)
Introduction to Python (online)	R ³	Any	B(b)
The Linux Command Line for Scientific Computing	0	Any	B(b)
Essential Software Engineering for Researchers	0	Any	B(b)/A(a)
Numerical Computing in Python with NumPy & SciPy	0	Any	B(b)/A(a)
Object-Oriented Python	0	Any	B(b)/A(a)
Plotting in Python with Matplotlib	0	Any	B(b)/A(a)
Profiling and Optimisation in Python	0	Any	B(b)/A(a)
Reproducible & Scalable Research Computing with	0	Any	B(b)/A(a)
Containers			
Using Git to code, collaborate and share	0	Any	B(b)
Writing Theses in LaTeX	R	Any	B(b)
Research Integrity Programme			
Plagiarism Awareness	M	1 st	C(d)
Intellectual Property (online)	0	Any	C(d)
Copyright for Researchers	М	Any	C(d)
Science, Research and Integrity	М	Any	E(d)
Information Retrieval	0	Any	D(b)
EndNote	0	Any	A(a)
Introducing the Web of Science Database	0	Any	A(a)
Keeping Your Research Up to Date	М	Any	A(a)
Research Data Management	М	2 nd	A(a)
Research Data Management Plans LIBRARY	0	Any	A(a)
Introduction to Philosophy	0	Any	D(b)
Professional Effectiveness Programme		,	
Becoming an Effective Researcher	М	1st	C(b), D(c)
Time Management for your Doctorate	М	1 st	C(a), C(b)
Putting Project Management into Action	М	1 st	B(a) B(c)
Planning & Preparing for your Thesis & Viva	0	Any	B(a), C(d), D(a)
Teams & Communication Retreat	М	1 st	D(c)
Introduction to MBTI	0	Any	D(c), D(d)
Introduction to the Clifton Strengths Finder	0	Any	C(b), D(c)
Enhancing Wellbeing for Doctoral Researchers	M	2nd	C(d)
Academic Resilience	0	Any	C(d)
Enhancing your Leadership Skills	M	2 nd /3 rd	C(b), D(d)
Understanding and Developing Assertiveness	0	Any	D(d)
Introduction to Unconscious Bias	R	1 st	C(b), D(c)
Professional Progression		_	
Finish Up Move On + (FUMO)	М	3 rd	C(b), D(d), E(d)
Networking for Progressing Your PhD	M	2 nd /3 rd	C(b), D(d)
Negotiation for Your Doctorate and Beyond	0	Any	C(b), D(b)
Maintaining your Motivation and Building Independence	M	2 nd	A(c), B(a)
Thinking about Doing a Postdoc?	0	2nd/3rd	E(d)
Ask the Doctor: your Chance to Chat with a Doctoral	0	2nd/3rd	E(d)
Graduate at Work		2110/510	_(0)
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An Introduction to Career Planning for 1st & 2 nd Year PhDs:	М	1 st	E(d)
Business, Engineering & Physical Sciences			
Or			
An Introduction to Career Planning for 1st & 2 nd Year PhDs:			
Life Sciences & Medicine			
Effective CVs and Applications	0	Any	E(d)
Strategic Job Searching	0	Any	E(d)
Preparing for Interviews	0	Any	E(d)
Graduate Teaching Assistants (GTA) Programme			
Introduction to Learning and Teaching	0	Any	A(6), C(c)
Introduction to Assessment and Feedback for Learning	0	Any	A(2), C(c)
Promoting Active Learning in Labs	0	Any	A(5), C(c)
Microteaching	0	Any	A(6), C(c)
Applying for Associate Fellowship (AFHEA)	0	Any	C(c)/D(d)
GTA Retreat	0	Any	C(c)
PG REP Programme			
Negotiation skills for Postgraduate Representatives	M ¹	Any	D(b)
Chairing Meetings for Postgraduate Representatives	M ¹	Any	D(c), D(d)
Assertiveness for Postgraduate Representatives	M ¹	Any	D(d)
Postgraduate Well-being: Help your Peers	M ¹	Amy	C(c), D(c)
Discipline / Departmental / Imperial Safety Training			
Local Safety Courses and Departmental requirements	М	1 st	E(b) E(c)