

**Intercollegiate Module Codes 2021/22**

<b>IC No.</b>	<b>Module Title</b>	<b>Term</b>	<b>Module Organiser (MO)</b>	<b>College</b>	<b>QMUL UG code</b>	<b>QMUL PG code</b>	<b>KCL code</b>	<b>RHUL code</b>	<b>UCL code</b>
4205	Lie Groups and Lie Algebras	1	Prof Jurgen Berndt	KCL	INK7020U	INK7020P	7CCMMS01		
4211	Statistical Mechanics	2	Prof B P Cowan	RHUL	INR7007U	INR7007P		PH4211	
4226	Advanced Quantum Theory	1	Prof C Faria	UCL	INU7001U	INU7001P			PHAS0069
4228	Advanced Topics in Statistical Mechanics	2	Prof I J Ford	UCL	INU7067U	IN7067P			PHAS0061
4242	Relativistic Waves & Quantum Fields	1	Prof G Travaglini	QMUL	SPA7018U	SPA7018P			
4245	Advanced Quantum Field Theory	2	Dr S Ramgoolam	QMUL	SPA7001U	SPA7001P			
4246	Functional Methods in Quantum Field Theory	1	Dr R Russo	QMUL	SPA7024U	SPA7024P			
4247	Differential Geometry in Theoretical Physics	1	Dr C Papageorgakis	QMUL	SPA7027U	SPA7027P			
4319	Galaxy Dynamics, Formation and Evolution	1	Dr R Schoenrich	UCL	INU7071U	INU7071P			PHAS0065
4336	Advanced Physical Cosmology	2	Dr A Pontzen	UCL	INU7056U	INU7056P			PHAS0067
4421	Atom and Photon Physics	1	Prof S Hogan	UCL	INU7003U	INU7003P			PHAS0105
4425	Photonics and Metamaterials	2	Dr F Rodriguez-Fortuno	KCL	INK7091U	INK7091P	7CCP4126		
4427	Quantum Computation and Communication	2	Prof S Bose	UCL	INU7022U	INU7022P			PHAS0070

No.	Course Title	Term	Teacher	College	QMUL UG code	QMUL PG code	KCL code	RHUL code	UCL code
4431	Molecular Physics	2	Dr M Buitelaar	UCL	INU7014U	INU7014P			PHAS0099
4442	Particle Physics	1	Dr G Hesketh	UCL	INU7017U	INU7017P			PHAS0072
4450	Particle Accelerator Physics	1	Dr. P. Karataev	RHUL	INR7003U	INR7003P		PH4450	
4471	Modelling Quantum Many-Body Systems	1	Dr. J. Bhaseen	KCL	INK7066U	INK7066P	7CCPNE05		
4472	Order and Excitations in Condensed Matter	2	Prof S Bramwell	UCL	INU7016U	INU7016P			PHAS0075
4475	Physics at the Nanoscale	1	Dr. V. Antonov	RHUL	INR7012U	INR7012P		PH4475	
4479	Advanced Condensed Matter	1	Dr. C. Weber	KCL	INK7067U	INK7067P	7CCP4931		
4501	Standard Model Physics and Beyond	2	Prof S Sarkar	KCL	INK7032U	INK7032P	7CCP4501		
4515	Statistical Data Analysis	1	Prof. G. Cowan	RHUL	INR7014U	INR7014P		PH4515	
4534	Strings, Branes and Quantum Gravity	2	Prof P West	KCL	INK7034U	INK7034P	7CMMS34		
4541	Supersymmetry and Conformal Field Theory	2	Prof C Herzog	KCL	INK7090U	INK7090P	7CCMCS40		
4545	Supersymmetric Methods in Theoretical Physics	2	Dr. M. Buican	QMUL	SPA7031U	SPA7031P			
4600	Stellar Structure and Evolution	1	Dr. R. P. Nelson	QMUL	SPA7023U	SPA7023P			
4602	Relativity and Gravitation	1	Dr. T. Clifton	QMUL	SPA7019U	SPA7019P			

No.	Course Title	Term	Teacher	College	QMUL UG code	QMUL PG code	KCL code	RHUL code	UCL code
4606	Advanced Cosmology	2	Dr. K. Malik	QMUL	SPA7028U	SPA7028P			
4616	Electromagnetic Radiation in Astrophysics	2	Dr T Haworth	QMUL	SPA7006U	SPA7006P			
4620	Dark Matter and Dark Energy	1	Dr F Yusaf	KCL	INK7069U	INK7069P	7CCP4935		
4630	Planetary Atmospheres	2	Prof A Coates	UCL	INU7045U	INU7045P			SPCE0010
4640	Solar Physics	2	Prof. L. Driel-Gesztelyi	UCL	INU7008U	INU7008P			SPCE0011
4650	Solar System	1	Dr F Valponi	QMUL	SPA7022U	SPA7022P			
4660	The Galaxy	2	Dr D Mulryne	QMUL	SPA7010U	SPA7010P			
4670	Astrophysical Plasmas	2	Dr C Chen	QMUL	SPA7004U	SPA7004P			
4680	Space Plasma and Magnetospheric Physics	2	Dr D Verscharen	UCL	INU7026U	INU7026P			SPCE0004
4690	Extrasolar Planets & Astrophysical Discs	2	Dr. S. Paardekooper	QMUL	SPA7009U	SPA7009P			
4800	Molecular Biophysics	1	M Molodtsov	UCL	INU7013U	INU7013P			PHAS0103
4810	Theory of Complex Networks	1	Dr I Neri	KCL	INK7001U	INK7001P	7CCMCS02		
4820	Equilibrium Analysis of Complex Systems	2	Dr I Neri	KCL	INK7002U	INK7002P	7CCMCS03		
4830	Dynamical Analysis of Complex Systems	2	Prof R Kuehn	KCL	INK7004U	INK7004P	7CCMCS04		
4840	Mathematical Biology	2	TBC	KCL	INK7005U	INK7005P	7CCMCS05		
4850	Elements of Statistical Learning	1	Dr D Pigoli	KCL	INK7003U	INK7003P	7CCMCS06		