

MPhys Physics with a Year of Experimental Research - Programme Structure

Part 1									
Semester 1					Semester 2				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS1015	†	5	4	Motion and relativity	PHYS1011	†	5	4	Waves, light & quanta
PHYS1017	†	5	4	Physics Skills 1	PHYS1013	†	5	4	Energy & matter
PHYS1022	†	5	4	Electricity and Magnetism	PHYS1019	†	5	4	Physics Skills 2
MATH1006	†	7.5	4	Introduction to Mathematical Methods 1 option module	MATH1007	†	7.5	4	Mathematical Methods for Physical Science Physics Skills -
OPTION		7.5	4/5	(PHYS1004, MATH1048, MATH1050 or MATH1052 recommended)	PHYS1201	†	7.5	4	Programming and Data Analysis

Part 2									
Semester 1					Semester 2				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS2006	†	7.5	5	Classical Mechanics	PHYS2001	†	7.5	5	Electromagnetism
PHYS2022	†	7.5	5	Physics from Evidence 1	PHYS2003	†	7.5	5	Quantum Physics
PHYS2023	†	7.5	5	Wave Physics	PHYS2024	†	7.5	5	Statistical Mechanics
OPTION		7.5	5	1 option module (MATH2015 recommended)	OPTION		7.5	5	1 option module (PHYS2009 recommended)

Part 3									
Semester 1					Semester 2				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS3007	†	7.5	6	Theories of Matter, Space and Time	PHYS3002	†	7.5	6	Nuclei & Particles
PHYS3008	†	7.5	6	Atomic Physics	PHYS3004	†	7.5	6	Crystalline Solids
PHYS6003	†	7.5	7	Advanced Quantum Physics	OPTION		7.5	5/6/7	2 option modules (PHYS6017, PHYS3009 or
OPTION		7.5	6	1 option module (PHYS3003, PHYS6009, PHYS6012 or PHYS6024 recommended)	OPTION		7.5	5/6/7	PHYS6014 recommended)

Part 4									
Semester 1					Semester 2				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS6018	†	60	7	Research and Thesis on Experimental Physics (continues in semester2)					

FHEQ levels for options are illustrative, other configurations are possible, but must meet university regulations on forward/back-tracking, and final ECTS accumulation for award (<http://www.calendar.soton.ac.uk/sectionIV/cats.html>)

Status † Core module - must be taken and passed before progression to next level or award
‡ Compulsory module - must be taken before progression to next level or award