

PROFESSIONALLY ACCREDITED DEGREE ROUTE IN THEORETICAL PHYSICS

Apr 29, 2022

OM: Open Module, TE: Trinity Elective

JF - JS: Core SoM SS Optional Core	JF - JS: OM SoM SS: Optional non-core	JF - JS: Core SoP SS: Optional Core	JF - JS: OM SoP SS: Optional non-core	TE/OM Other Schools	SS Capstone
10 credits					
5 credits					

Module prerequisites are suppressed for concision

Teaching Council requirements for Mathematics or Appl. Maths are labelled by %

School of Mathematics					Jointly Taught	School of Physics			Note: contents of School of Physics modules in Fresher years:	
JF Michaelmas						Physics 1 for Theoretical Physics			Physics 1 for TP: Intro (3), Special Rel. (15), Waves & Optics I (20), Statistics (10) Physics 2: Electricity & Magnetism I, Quantum Physics, Gravitation & Astrophysics	
JF Hilary					Physics 2 for Phys. Sci. & TP			Physics 3: Thermodynamics, Electricity & Magnetism II, Materials, Oscillations Physics 4 for TP: Chaos, Nuclear & Particle, Observing the Universe, Waves & O. II		
JF: 60 TP core with 40 SoM + 20 SoP										
SF Michaelmas					Physics 3 for Phys. Sci. & TP			Other Schools		
SF Hilary					Physics 4 for Theoretical Physics			Trinity Elective	Statistics (STU12501) %	There is a quota of 10 students for STU12501, STU12502, STU23501 and STU20005
SF: 40 TP core with 20 SoM core + 20 SoP + 10 OM + 10 TE								Trinity Elective	Statistics (STU12502)	
JS Michaelmas					Atomic Physics & Statistical Thermodynamics			Practical 1 for TP	Computer Simulation I	Statistics (STU23501) %
JS Hilary					Condensed Matter Physics I			Practical 2 for TP	Semiconductor Physics (inc. Devices)	Statistics (STU20005)
JS: 50 TP core with 30 SoM core + 20 SoP + 10 OM										
SS Michaelmas					SS Capstone Research Project: 20 ECTS Module.	Problem Solving in Physics	Condensed Matter Theory			
SS Hilary					Equally balanced across semesters.	Nuclear & Particle Physics ^^	Quantum Plasmonics and Metamaterials ~	Cosmology ~		
					Either a SoM or SoP module is chosen.	Quantum Optics & Information	Energy Science	Computer Simulation II		
SS: 40 TP core & non-core + 20 Capstone core										
SS non-core modules in SoM vary by year.										