

Engineering Physics Programme Overview									
Part A		Part B		Part C		Part D			
Core Modules									
Foundation of Physics (Core Physics I)	Classical Physics of Particles, Fields and Devices (Core Physics II)	Quantum & Condensed Matter Physics (Core Physics III)	Condensed Matter, Materials & Statistical Physics (Core Physics IV)	Year in industry/abroad	Advanced Topics (Core Physics V)	Year in industry/abroad	MPhys Research Project		
Physics Laboratory I	Physics Laboratory II		Group Project		Engineering Module by Stream		Engineering Module by Stream		
Computational Physics I	Computational Physics II		Individual Project (BSc) or Research Methods (MPhys)		Engineering Module by Stream		Engineering Module by Stream		
Methods, Philosophy and Frontiers of Physical Science	Engineering Module by Stream	Engineering Module by Stream	Engineering Module by Stream		Engineering Module by Stream		Engineering Module by Stream		
Mathematics for Physics I	Mathematics for Physics II		Engineering Module by Stream		Engineering Module by Stream		Engineering Module by Stream		
Materials Engineering Stream									
Materials Modelling		Phase Transformations in Materials		Nano Materials	Composite Materials	Design with Engineering Materials	Materials Modelling		
				Advanced Principles of Materials	Functional Materials	Advanced Characterisation of Materials (subject to cap)	Advances in Biomaterials		
Electrical Engineering Stream									
Engineering Project Management				Embedded Systems Design and Implementation	Digital Interfacing and Instrumentation	Fundamentals of Digital Signal Processing	Mobile Network Technologies		
						Information Theory & Coding	Antennas		
						Solar Power	Radio Frequency and Microwave Integrated Circuit Design		
						Wind Power			
Mechanical and Manufacturing Stream									
Manufacturing Technology		Mechanics of Materials I		Laser Materials Processing	Computational Fluid Dynamics	Experimental Mechanics	Structural Analysis		
				Mechanics of Materials II	Fracture & Failure	Simulation of Advanced Materials	Thermofluids		
Systems Engineering Stream									
Systems Integration				Systems Methods	Systems Architecture, Simulation and Modelling	Systems Architecture	Systems Design		
						Systems Modelling for Control Engineering	Validation and Verification		