

DN008 Bachelor of Science (Honours) in Experimental Physics

Stage 1	Stage 2	Stage 3	Stage 4
Fields, Waves and Light (PHYC 10060)	Electromagnetism and Optics (PHYC 20010)	Thermodynamics and Statistical Physics (PHYC 30010)	Advanced Quantum Mechanics (PHYC 40010)
Foundations of Physics (PHYC 10070)	Introductory Quantum Mechanics (PHYC 20020)	Quantum Mechanics (PHYC 30030)	Applied Quantum Mechanics (PHYC 40020)
Frontiers of Physics (PHYC 10080)	Thermal Physics and Materials (PHYC 20030)	Electromagnetism (PHYC 30070)	Condensed Matter Physics (PHYC 40250)
Introduction to Calculus (MATH 10070) ¥	Linear Models in the Sciences (MATH 20030)	Classical Mechanics and Relativity (PHYC 30020)	High Energy Physics (PHYC 40080)
Calculus and Statistics (MATH 10080) ¥	Multivariable Calculus and Applications (MATH 20140)	Nuclear Physics (PHYC 30090)	Physics Option^
Matrices and Vectors (MATH 10090) ¥	Science Module	Optics and Lasers (PHYC 30080)	Physics Option^
Science Module	Science Module	Advanced Laboratory I (PHYC 30130)*	Advanced Laboratory III (PHYC 40270)*
Science Module	Science Module		
Science Module	Science Module	Advanced Laboratory II (PHYC 30140)*	Advanced Laboratory IV (PHYC 40280)*
Science Module	Science Module		
Free Elective	Free Elective	Free Elective	Free Elective
Free Elective	Free Elective	Free Elective	Free Elective

¥ These modules can be replaced by the more advanced Numbers and Functions (MATH 10040), Linear Algebra and Geometry (MATH 10050).

* These modules are worth 10 ECTS credits rather than 5.

^ Fourth Year Optional Units: Applied Optics (PHYC 40210), Low Temperature Physics (PHYC 40040), Quantum Theory of Condensed Matter Physics PHYC 40200, Galaxies, Observational Cosmology and the Interstellar Medium (PHYC 40030), Differential Geometry for Relativity (PHYC 40060), General Relativity and Cosmology (PHYC 40120), Environmental Physics (PHYC 40050), Medical Physics (PHYC 40110) and Advanced Biophysics (PHYC 40090).

*** Free electives can be any subjects
including appropriate physics modules in any degree programme ***