

MODULE LECTURERS (2021/2022)

Physics Foundation Year (level 3)

Semesters 1 & 2 (S1 & S2)

Foundation Physics A [*S1 Heather M Yates + S2 Graham S McDonald*]

Foundation Physics B [*S1 Mark A Hughes + S2 Marina Leontiadou*]

Foundation Physics Laboratory [*S1 Marina Leontiadou + S2 Tiehan Shen*]

Foundation IT and Study Skills [*S1 Marina Leontiadou + S2 James M Christian*]

Semester 1

Foundation Mathematics 1 [*Salem Ameen*]

Semester 2

Foundation Mathematics 2 [*Graham S McDonald*]

Mathematics and Financial Mathematics only: Intro to Probability & Stats [*S1 + S2 Rabea Elmazuzi*]

Physics First Year (level 4)

Semesters 1 & 2 (S1 & S2)

Mechanics, Relativity and Quantum Physics [*S1 Ian Morrison + S2 John E Proctor*]

Electricity, Magnetism and Light [*S1 + S2 Mark A Hughes + S2 Marina Leontiadou*]

Physics Laboratory 1 [*S1 Mark A Hughes, Heather M Yates + S2 Heather M Yates, John E Proctor*]

Physics in Context [*S1 + S2 Ian Morrison*]

Modelling of Physical Systems [*S1 + S2 Dan J Bull*]

Mathematics [*S1 + S2 Graham S McDonald*]

Physics Seminars [*Marina Leontiadou*]

Electronic Engineers only: Mathematics [*S1 Graham S McDonald*] and Maths & Computing [*S2 Graham S McDonald* (theory), *Dan J Bull* (computing)]

Physics Second Year (level 5)

Semester 1

Electromagnetism [*John E Proctor*]

Thermal Physics [*Dan J Bull*]

Physics Laboratory 2 [*Heather M Yates* (Practical) and *Dan J Bull* (Computing)] †

Semester 2

Quantum Physics [*Ian Morrison*]

Waves and Optics [*James M Christian* and *Tiehan Shen*] †

Group Project [*Mark A Hughes*] ††

†† Physics options: Educational Principles and Practice in STEM [*S2 Claire M Ellison*], Foreign Language [*S1 + S2 Languages*]

† Acoustics: Digital Signal Processing [*S1 + S2 Francis Li*], †† Principles of Acoustics [*S2 Olga Umnova*]

Physics BSc Third Year (level 6)

Semesters 1 & 2 (S1 & S2)

Nuclear and Particle Physics [S1 John E Proctor + S2 Ian Morrison]

Maxwell's Equations and Wave Optics [S1 + S2 Tiehan Shen]

Quantum Mechanics of Atoms, Molecules and Solids [S1 Ian Morrison + S2 Dan J Bull]

Physics Project - 40 Credits [S1 + S2 Heather M Yates] ††

Photonics and Nano-technology [S1 James M Christian + S2 Heather M Yates and Mark A Hughes] †

† or Physics option: Theoretical Physics [S1 + S2 James M Christian]

or Acoustics options: Speech and Musical Acoustics [S1 Trevor J Cox]

Computer Simulation for Acoustics [S2 Jonathan Hargreaves]

†† Short Project – 20 Credits [S1 + S2 Heather M Yates]

Physics MPhys Third Year (level 6)

Semesters 1 & 2 (S1 & S2)

Nuclear and Particle Physics [S1 John E Proctor + S2 Ian Morrison]

Maxwell's Equations and Wave Optics [S1 + S2 Tiehan Shen]

Quantum Mechanics of Atoms, Molecules and Solids [S1 Ian Morrison + S2 Dan J Bull]

Short Project [S1 + S2 Heather M Yates]

Theoretical Physics [S1 + S2 James M Christian]

Photonics and Nano-technology [S1 James M Christian + S2 Heather M Yates and Mark A Hughes] †

† or Acoustics options: Speech and Musical Acoustics [S1 Trevor J Cox]

Computer Simulation for Acoustics [S2 Jonathan Hargreaves]

Physics MPhys Fourth Year (level 7)

Semesters 1 & 2

Research Project [Heather M Yates]

60 credits

Semester 1

Advanced Quantum Mechanics [Ian Morrison, Tiehan Shen and James M Christian]

30 credits

Semester 2

Thin Films and Materials Characterisation [John E Proctor, Heather M Yates, Tiehan Shen and Mark A Hughes (labs)]

30 credits