

MODULE LECTURERS (2023/2024)

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 Mark A Hughes*]

Semester 1

Foundation Mathematics 1 [*Kevin Sandiford, Eloise Kalavsky*]

Semester 2

Foundation Mathematics 2 [*Graham S McDonald*]

Mathematics only: Intro to Probability & Stats [*S1 + S2 Hamid A Adamu*]

Physics First Year (level 4)

Semesters 1 & 2 (S1 & S2)

Mechanics, Relativity and Quantum Physics [*S1 Ian Morrison + S2 Marina Leontiadou*]

Electricity, Magnetism and Light [*S1 + S2 Mark A Hughes + S2 Tiehan Shen*]

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), Salem Ameen (computing)*]

Physics Second Year (level 5)

Semesters 1 & 2 (S1 & S2)

Electromagnetism [*John E Proctor*]

Thermal Physics [*Dan J Bull*]

Quantum Physics [*Ian Morrison*]

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

Semester 1

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

Semester 2

Group Project [*Mark A Hughes*] †

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

† Acoustics: Principles of Acoustics [*S1+S2 Olga Umnova*]

Physics Third Year (level 6)

Semesters 1 & 2

Physics Project - 40 Credits [*Heather M Yates*]

Semester 1

Nuclear and Particle Physics [*John E Proctor* (Nuclear) and *Ian Morrison* (Particle)]
Physics Laboratory 3 [*Ian Morrison* (Practical) and *James M Christian* (Computing)]

Semester 2

Condensed Matter Physics [*Dan J Bull* and *Tiehan Shen*]

Semester 2 option:

Astrophysics & Planetary Physics [*Ian Morrison* (Astro) and *John E Proctor* (Planetary)]

or

Photonics and Nanotechnology [*James M Christian* (Photonics) and *Heather M Yates* and *Mark A Hughes* (Nanotechnology)]

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