University of Salford MANCHESTER

Joule Physics Laboratory

MODULE LECTURERS (2022/2023)

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 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*]

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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