University of Salford MANCHESTER

Joule Physics Laboratory

MODULE LECTURERS (2017/2018)

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 Ian Morrison + S2 Marina Leontiadou*]
Foundation Physics Laboratory [*S1 Mark A Hughes + S2 Leontiadou*]
Foundation IT and Study Skills [*Richard D Pilkington*]

Semester 1
Engineering Methodology S0.1 [*Garry Rowsell*]

Semester 2
Engineering Methodology S0.2 [*Ian Morrison and James Christian*]

Physics First Year (level 4)

Semesters 1 & 2 (S1 & S2)
Fundamentals of Physics A [*S1 Ian Morrison + S2 John E Proctor + Labs by S1 Bull / S2 Yates*]
Fundamentals of Physics B [*Dan J Bull + Labs by S1 Dan J Bull / S2 Heather M Yates*]
Fundamentals of Physics C [*S1 MA Hughes + S2 JM Christian + Labs by S1 Bull / S2 Proctor + Yates*]
Frontiers of Physics and Entrepreneurial Skills [*Richard D Pilkington + Ian Morrison*]

Semester 1
Mathematics [*Graham S McDonald*]

Semester 2
Mathematics and Computing [*Graham S McDonald (theory) + Dan J Bull (computing labs)*]

Within the Pure and Applied Physics degree, the above two Mathematics modules are replaced by:
Pure and Applied Mathematics for Physics and Pure and Applied Mathematics and Computing [*Graham S McDonald + PAP Computer-Aided Learning by Stuart Astin*]

Physics Second Year (level 5)

Semesters 1 & 2 (S1 & S2)
Physics Laboratory [*S1 Mark A Hughes + S2 Richard D Pilkington*]
Computing Laboratory [*S1 James Christian + S2 Stuart Astin*] †
Classical and Quantum Waves [*S1 Ian Morrison + S2 Stanko Tomic*]
Mathematical Methods and Applications [*S1 Graham S McDonald + S2 Tiehan Shen*]
Properties of Matter [S1 *Dan J Bull + S2 Mark A Hughes*]
Physics of the Universe [*Keith Robinson*] †

† or Acoustics option: Digital Signal Processing [*James Woodcock*]
or Acoustics option: Principles of Acoustics [*Olga Umnova*] or Foreign Language

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Joule Physics Laboratory

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 [*Tiehan Shen*]
Quantum Mechanics of Atoms, Molecules and Solids [*S1 Stanko Tomic + S2 Dan J Bull*]
Physics Project - 40 Credits [*Richard D Pilkington*]
Photonics and Nano-technology [*S1 James M Christian + S2 John E Proctor*] †

† or Physics option: Theoretical Physics [*James M Christian*]
or Acoustics option: Psychoacoustics & Musical Acoustics [*Trevor J Cox*]

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 [*Tiehan Shen*]
Quantum Mechanics of Atoms, Molecules and Solids [*S1 Stanko Tomic + S2 Dan J Bull*]
Short Project [*Richard D Pilkington*]
Theoretical Physics [*James M Christian*]
Photonics and Nano-technology [*S1 James M Christian + S2 John E Proctor*] †

† or Acoustics option: Psychoacoustics & Musical Acoustics [*Trevor J Cox*]

Physics MPhys Fourth Year (level 7)

Semesters 1 & 2

Research Project [*Richard D Pilkington + Heather M Yates*]
60 credits

Semester 1

Advanced Quantum Mechanics [*Stanko Tomic + Tiehan Shen + Computing: Ian Morrison*]
30 credits

Semester 2

Thin Films and Materials Characterisation [*John E Proctor + Heather M Yates + Tiehan Shen + Labs by Mark A Hughes / Richard D Pilkington*]
30 credits