

Structure of Foundation Year

<i>Foundation Mathematics 1</i>	<i>Foundation Physics A</i>	<i>Foundation Physics B</i>	<i>Foundation Laboratory</i>	<i>Foundation IT and Study Skills</i>
<i>Foundation Mathematics 2</i>			<i>OR</i> <i>Foundation Probability and Statistics</i>	

Foundation Mathematics 1 (short fat)

- Algebraic manipulation in scientific problems, transposition of formulae
- Cartesian and polar co-ordinates.
- Logarithmic functions
- Introduction to calculus

Foundation Mathematics 1 – Dr Salem Ameen

Coursework: Core maths skills 1, 50%

Coursework: Core maths skills 2, 50%

Helping Engineers Learn Mathematics



Foundation Mathematics 2 (short fat)

- Vectors
- Complex numbers
- Differentiation
- Applications of Differentiation
- Integration
- Sequences and Series

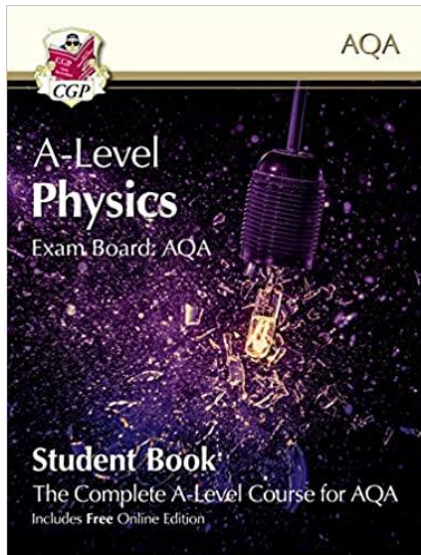
Foundation Mathematics 2 - Dr Graham S McDonald
Coursework: Core maths skills 3, 50%
Coursework: Core maths skills 4, 50%

Helping Engineers Learn Mathematics



Foundation Physics A (long thin)

- Mechanics – Forces in Equilibrium, Dynamics, Force and Motion, Energy and Power, Circular Motion
- Properties of Mater – Matter and Molecules, Thermal Properties, Strength of Solids, The Gas Laws
- Waves – Properties of Waves, Sound, Optics, Electromagnetic Waves



Coursework 1: Core Physics A skills 1, 50%

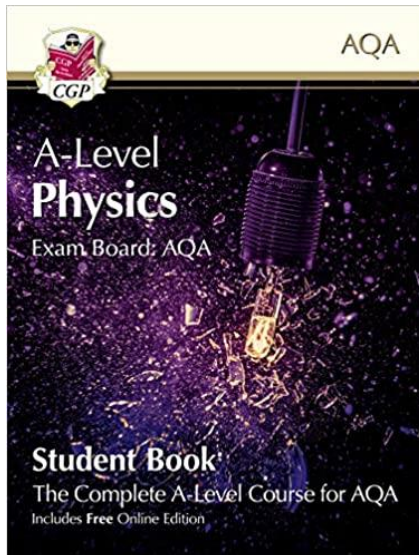
Coursework 2: Core Physics A skills 2, 50%

Trimester 1 - Dr Heather M Yates

Trimester 2 – Dr Graham S McDonald

Foundation Physics B (long thin)

- Electricity – Electric Circuits, Capacitors, Electronics
- Fields – Electric Fields, Magnetic Fields, Electromagnetic Induction, Alternating Current, Gravitation
- Atomic and Nuclear Physics – Electrons and Photons, Radioactivity, Energy from the Nucleus



Coursework: Core physics B skills 1, 50%
Coursework: Core physics B skills 2, 50%

Trimester 1- Dr Mark A Hughes

Trimester 2- Dr Marina A Leontiadou

Foundation Physics Laboratory (long thin)

- Experimental design
- Methods of scientific measurement and reporting
- Data analysis and errors
- A series of experiments covering, mechanics, thermal physics, electricity, and waves.

Coursework 1: Core Lab skills, 50%

Coursework 2: Lab Journal, 50%

Trimester 1- Dr Marina Leontiadou

Trimester 2- Dr Tiehan Shen

Foundation IT and Study Skills (long thin)

- Presentation Skills – report writing, scientific presentations
- Problem Exercises – group based exercises solving physics and engineering based problems.
- IT Skills – the use of spreadsheets, graphical representations of data, computer algebra, solving problems using computers

Coursework 1: Core Physics skills, 50%

Coursework 2: IT skills, 50%

Trimester 1- Dr Marina Leontiadou

Trimester 2- Dr James Christian

Introduction to Probability & Statistics (long thin)

This module is only for Maths students only instead of the laboratory module.

- Knowledge, understanding and competence in probability and statistics gained.
- Knowledge of specific software packages used to statistically analyse data used.

Coursework 1: Core Maths skills, 50%

Coursework 2: Core Maths skills, 50%

Trimester 1- Dr Hamid Adamu

Trimester 2- Dr Hamid Adamu

Academic timetable

Semester 1 – Foundation Year
(Physics/Acoustics/ EE/ EEE students)

	9am	10am	11am	12pm	13pm	14pm	15pm	16pm	17pm
Mon		Foundation Physics A (CRN50142) Peel 103 H. Yates				Foundation Mathematics 1 (CRN52551) Maxwell 824 S. Ameen			
Tues	Foundation Mathematics 1 (CRN52551) Maxwell 412b S. Ameen				Foundation Physics Laboratory (CRN50158) SEE Building SB3.01 - Electronics Laboratory M. Leontiadou				
Wed									
Thurs									
Fri	Foundation Physics B (CRN50143) Peel 103 M. Hughes				Foundation IT&Study skills(CRN50159) SEE Building SB3.01 - Electronics Laboratory M. Leontiadou				

Academic timetable

Semester 1 – Foundation Year
(only for Maths students)

	9am	10am	11am	12pm	13pm	14pm	15pm	16pm	17pm
Mon		Foundation Physics A (CRN50142) Peel 103 H.Yates				Foundation Mathematics 1(CRN52551) Maxwell 824 S.Ameen			
Tues	Foundation Mathematics 1 (CRN52551) Maxwell 412b S. Ameen								
Wed	Intro to Probability & Stats(CRN52785) Online delivery H. A								
Thurs									
Fri	Foundation Physics B (CRN50143) Peel 103 M. Hughes				Foundation IT&Study skills(CRN50159) SEE Building SB3.01- Electronics Laboratory M. Leontiadou				

VISITING US

The University of Salford is situated just a mile and a half from Manchester city centre. There are excellent transport links; Salford Crescent train station is on campus and regular bus services stop along the Crescent.

Our campus at MediaCityUK is 1.6 miles from our main campus and is connected via the number 50 bus.



University of
Salford
MANCHESTER

CAMPUS MAP KEY

University Buildings

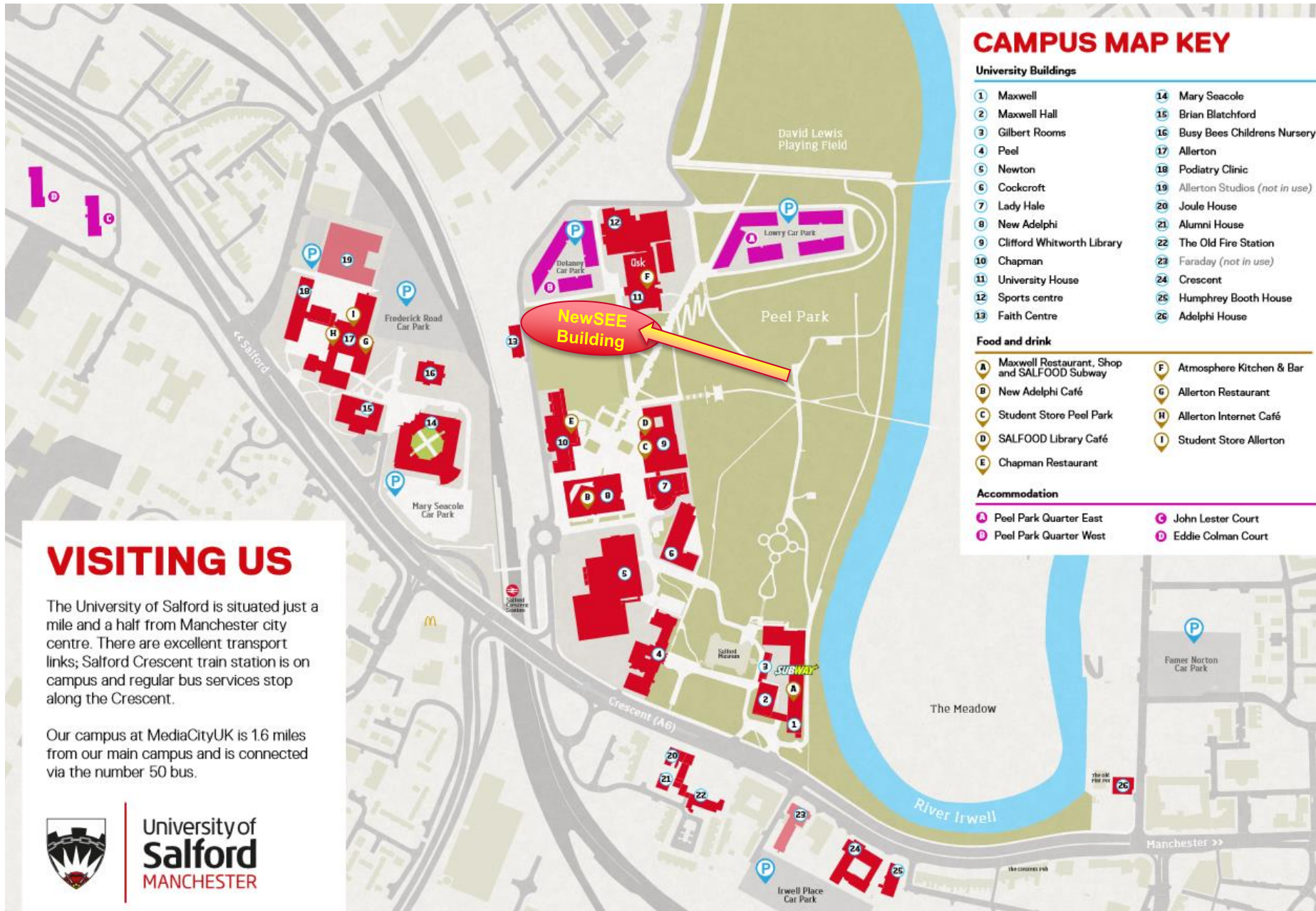
- | | |
|------------------------------|---------------------------------|
| ① Maxwell | ⑭ Mary Seacole |
| ② Maxwell Hall | ⑮ Brian Blatchford |
| ③ Gilbert Rooms | ⑯ Busy Bees Childrens Nursery |
| ④ Peel | ⑰ Allerton |
| ⑤ Newton | ⑱ Podiatry Clinic |
| ⑥ Cockcroft | ⑲ Allerton Studios (not in use) |
| ⑦ Lady Hale | ⑳ Joule House |
| ⑧ New Adelphi | ㉑ Alumni House |
| ⑨ Clifford Whitworth Library | ㉒ The Old Fire Station |
| ⑩ Chapman | ㉓ Faraday (not in use) |
| ⑪ University House | ㉔ Crescent |
| ⑫ Sports centre | ㉕ Humphrey Booth House |
| ⑬ Faith Centre | ㉖ Adelphi House |

Food and drink

- | | |
|---|----------------------------|
| A Maxwell Restaurant, Shop and SALFOOD Subway | F Atmosphere Kitchen & Bar |
| B New Adelphi Café | G Allerton Restaurant |
| C Student Store Peel Park | H Allerton Internet Café |
| D SALFOOD Library Café | I Student Store Allerton |
| E Chapman Restaurant | |

Accommodation

- | | |
|--------------------------|----------------------|
| A Peel Park Quarter East | C John Lester Court |
| B Peel Park Quarter West | D Eddie Colman Court |





- *Prof. Ian Morrison – Head of Physics*
- *Dr. Daniel Bull – Programme Leader*
- *Dr Marina Leontiadou – Programme Leader – FY*

- *Dr Graham McDonald*
- *Dr Heather Yates*
- *Dr John Proctor*
- *Dr Mark Hughes*
- *Dr Tiehan Shen*
- *Dr James Christian*
- *Dr Stuart Astin – Lab Technical Team*
- *Bruce Lewis – Lab Technical Team*
- *Dr. Kevin Sandiford*
- *Dr Salem Ameen*
- *Dr Hamid Adamu*



- We now need to learn living with COVID-19. We recommend to read and understand (Covid19 Awareness documents in induction page), in order to avoid any additional unwanted precautions in the future.
- For some laboratory modules you may need to read and understand standard laboratory “Health & Safety” material on Blackboard in order to obtain access in the laboratories.
- We are responsible for your safety, but your safety is your responsibility too.
- You should protect yourself and others.

Living with Covid 19/ How to prevent the spread of Covid 19

- **Vaccination** – Get vaccinated if you can.
- **Let fresh air in** - Circulating air by opening a door or a window, even for a few minutes, helps remove older stale air reducing the chance of spreading infection.
- **Good hygiene:** Wash your hands with soap and water or use hand sanitiser regularly throughout the day, cover your coughs and sneezes, and clean your surroundings frequently
- **Wear a face covering or a face mask.**
- If you have any of the symptoms, stay home and get a rapid lateral flow test or a PCR test.

We must keep on protecting each other



- [Living safely with respiratory infections, including COVID-19 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)
- [Coronavirus \(COVID-19\) - NHS \(www.nhs.uk\)](https://www.nhs.uk)