

First Year Physics 26/27 Modules & Assessment

Trimesters 1 & 2 (20 credit long thin modules)

Mechanics, Relativity and Quantum Physics

Coursework: Assignment 1, 50%

Coursework: Assignment 2, 50%

Electricity, Magnetism and Light

Coursework: Assignment 1, 50%

Coursework: Assignment 2, 50%

Physics Laboratory 1

Coursework: Experimental Skills Journal, 50%

Coursework: Experimental Physics Journal, 50%

Physics in Context

Coursework: Problem Solving Journal, 70%

Coursework: Energy Research, 30%

Modelling of Physical Systems

Coursework: Assignment: Dynamics of Physical Systems, 50%

Coursework: Assignment: Thermodynamics & Waves, 50%

Mathematics

Coursework: Assignment 1, 50%

Coursework: Assignment 2, 50%

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Units and dimensions

The SI units for the five basic dimensions are:

the metre (for length)
the kilogram (for mass)

the second (for time)
the ampere (for electric current)

Time

second

hertz

Hz

s

s⁻¹

Length

metre

metre

m

m²

m³

Speed, velocity

metre / second

m s⁻¹

Acceleration

metre / (second × second)

m s⁻²

Mass

kilogram

kg

kg m⁻³

Density

mass / volume

kg m⁻³

Work, energy, heat

joule

J

N m

electron volt

eV

1.60 × 10⁻¹⁹ J

Power

watt

W

J / s

kg m² s⁻³

Pressure

pascal

Pa

N / m²

kg m s⁻²

Electric current

ampere

A

A s

Charge

coulomb

C

V

J / C

kg m² A⁻¹ s⁻²

Potential difference

volt

V

ohm Ω

Ω

V / A

kg m² A⁻² s⁻³

Resistance

ohm Ω

Ω

V / A

kg m² A⁻² s⁻³

Temperature

kelvin

K

kg m² s⁻² K⁻¹

Heat capacity

joule / kelvin

J / K

kg m² s⁻² K⁻¹

Specific heat capacity

joule / (kilogram × kelvin)

J / (kg K)

kg m² s⁻² K⁻¹ kg⁻¹

Thermal conductivity

watt / (metre × kelvin)

W / (m K)

kg m s⁻² K⁻¹ m⁻¹

Viscosity

pascal × second

Pa s

kg m s⁻¹

Surface tension

newton / metre

N / m

kg m s⁻² m⁻¹

Young's modulus

pascal

Pa

N / m²

kg m s⁻² m⁻²

Stress

pascal

Pa

N / m²

kg m s⁻² m⁻²

Strain

metre / metre

m / m

kg m s⁻² m⁻²

Modulus of elasticity

pascal

Pa

N / m²

kg m s⁻² m⁻²

Area

metre squared

m²

kg m s⁻² m⁻²

Volume

metre cubed

m³

kg m s⁻² m⁻²

Mass

kilogram

kg

kg m s⁻² m⁻²

Force

newton

N

kg m s⁻² m⁻²

Weight

newton

N

kg m s⁻² m⁻²

Energy

joule

J

kg m s⁻² m⁻²

Power

watt

W

kg m s⁻² m⁻²

Pressure

pascal

Pa

N / m²

kg m s⁻² m⁻²

Stress

pascal

Pa

N / m²

kg m s⁻² m⁻²

Strain

metre / metre

m / m

kg m s⁻² m⁻²

Modulus of elasticity

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m³

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Mass

kilogram

kg

kg m s⁻² m⁻²

Force

newton

N

kg m s⁻² m⁻²

Weight

newton

N

kg m s⁻² m⁻²

Energy

joule

J

kg m s⁻² m⁻²

Power

watt

W

kg m s⁻² m⁻²

Pressure

pascal

Pa

N / m²

kg m s⁻² m⁻²

Stress

pascal

Pa

N / m²

kg m s⁻² m⁻²

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newton

N

kg m s⁻² m⁻²

Weight

newton

N

kg m s⁻² m⁻²

Energy

joule

J

kg m s⁻² m⁻²

Power

watt

W

kg m s⁻² m⁻²

Pressure

pascal

Pa

N / m²

kg m s⁻² m⁻²

Stress

pascal

Pa

N / m²

kg m s⁻² m⁻²

Strain

metre / metre

m / m

kg m s⁻² m⁻²

Modulus of elasticity

pascal

Pa

N / m²

kg m s⁻² m⁻²

Area

metre squared

m²

kg m s⁻² m⁻²

Volume

Week	Week	Assessment
Trimester weeks	Timetable weeks	
Volta 1745 - 1807		TRIMESTER ONE (T1) Modelling of Physical Systems. Assignment: Dynamics of Physical Systems: 50% Due week T1-12 (12), Wed 02 Dec 2026
Watt 1736 - 1819		Physics Laboratory 1. Experimental Skills Journal: 50% Due week T2-12 (12), Fri 04 Dec 2026
		Mathematics. Assignment 1: 50% Due week T1-13 (13), Mon 07 Dec 2026
Coulomb 1736 - 1806		Mechanics, Relativity and Quantum Physics. Assignment 1: 50% Due week T1-13 (13), Wed 09 Dec 2026
		Electricity, Magnetism and Light. Assignment 1: 50% Due week T1-13 (13), Fri 11 Dec 2026
Newton 1642 - 1727		TRIMESTER TWO (T2) Physics in Context. Problem Solving Journal 70% Due week T2-05 (23), Fri 19 Feb 2027
		Modelling of Physical Systems. Assignment: Thermodynamics and Waves: 50% Due week T2-12 (32), Wed 21 Apr 2027
Boyle 1627 - 1691		Physics in Context. Energy Research 30% Due week T2-12 (32), Fri 23 Apr 2027
		Physics Laboratory 1. Experimental Physics Journal: 50% Due week T2-12 (32), Fri 23 Apr 2027
Pascal 1623 - 1662		Mathematics. Assignment 2: 50% Due week T2-13 (33), Mon 26 Apr 2027
		Mechanics, Relativity and Quantum Physics. Assignment 2: 50% Due week T2-13 (33), Wed 28 Apr 2027
		Electricity, Magnetism and Light. Assignment 2: 50% Due week T2-13 (33), Fri 30 Apr 2027

Academic Year by Week 2026/27

First Year Assessments

Week begins (Monday)	Trimesters	timetable wk no	pool rooms bookable for teaching and revision
7 September 2026	<i>Welcome/Induction</i>	0	
14 September 2026	Trimester 1 1	1	
21 September 2026	Trimester 1 2	2	✓
28 September 2026	Trimester 1 3	3	✓
5 October 2026	Trimester 1 4	4	✓
12 October 2026	Trimester 1 5	5	✓
19 October 2026	Trimester 1 6	6	✓
26 October 2026	Trimester 1 7	7	✓
2 November 2026	Trimester 1 8	8	✓
9 November 2026	Trimester 1 9	9	✓
16 November 2026	Trimester 1 10	10	✓
23 November 2026	Trimester 1 11	11	✓
30 November 2026	Trimester 1 12	12	✓
7 December 2026	Trimester 1 13	13	✓
14 December 2026	Inter-Trimester Break	14	✓
21 December 2026	<i>Christmas Vacation</i>	15	
28 December 2026	<i>Christmas Vacation</i>	16	
4 January 2027	<i>Christmas Vacation</i>	17	
11 January 2027	<i>Welcome/Induction</i>	18	
18 January 2027	Trimester 2 1	19	✓
25 January 2027	Trimester 2 2	20	✓
1 February 2027	Trimester 2 3	21	✓
8 February 2027	Trimester 2 4	22	✓
15 February 2027	Trimester 2 5	23	✓
22 February 2027	Trimester 2 6	24	✓
1 March 2027	Trimester 2 7	25	✓
8 March 2027	Trimester 2 8	26	✓
15 March 2027	Trimester 2 9	27	✓
22 March 2027	Trimester 2 10	28	✓
29 March 2027	Trimester 2 11	29	✓
5 April 2027	<i>Easter Vacation</i>	30	
12 April 2027	<i>Easter Vacation</i>	31	
19 April 2027	Trimester 2 12	32	✓
26 April 2027	Trimester 2 13	33	✓

ASSESSMENTS

Modelling of Physical Systems + Laboratory (Skills Journal)

Maths + MechRelQuantPhys + ElectMagLight

Physics in Context (Problem Solving)

Bank Holiday (Good Friday)

Bank Holiday Monday

Modelling of PS + Phys in Context + Lab (Physics Journal)

Maths + MechRelQPhys + ElectMagLight

1623 - 1662

Engineering + Acoustics, Audio & Video + Physics & Materials + Computer Science, Multimedia & Telecommunications

1902