

UNIVERSITY OF SALFORD

PROGRAMME AND MODULE AMENDMENT FORM

Guidance on completing this form can be found [here](#). Please contact the Quality and Enhancement Office (QEO@Salford.ac.uk or 0161 295 4123) for additional help.

This form can be used to create new, standalone modules when required.

Minor amendments can be signed off by your Associate Dean Academic. This will be coordinated by the Quality and Enhancement Office. Minor amendments may need additional sign off by the Dean of School if they include resource implications.

Major amendments will require sign off by the Programme Approval and Reapproval Panel. This will be coordinated by the Quality and Enhancement Office. Documentation will need to be completed 3 weeks before the meeting takes place. Scope of amendments can be found in the Programme Approval and Review Policy, but in general terms, anything affecting more than 1/3 of a programme will require a PARP meeting.

1	School: School of Science, Engineering & Environment	Additional School (if Req'd): Choose an item.	
2	Programme(s)/Module(s) to be amended. Include appropriate coding where possible:		
	Prog/Mod titles	Prog Code/CRN	Detail (e.g. partner/part term code)
	BSc (Hons) Physics (PL: Dan Bull)	S/P/F S/P/S S/PP/S	
	MPhys (Hons) Physics	MP/P/F MP/P/S MP/PP/S	Rolling out programme
	BSc (Hons) Physics with Acoustics	S/PAT/F S/PAT/S S/PATP/S	Rolling out programme
	MPhys (Hons) Physics with Acoustics	MP/PAT/F MP/PAT/S MP/PATP/S	Rolling out programme
	MPhys (Hons) Physics with Studies in North America	MP/PN/F	Rolling out programme
3	Amendment Proposer(s): Dan Bull/Ian Morrison		
4	Proposed Amendments		
	Brief Description:		
	Brief Description: A revision of the BSc programme structure and content in line with the requirements of the CEP project including changes to assessments. Modules at level 4 now long thins and modules at level 5,6 short fat.		
	Aims of programme updated Intended Learning outcomes updated Teaching and Learning strategies updated Programme Structure amended		
	Existing Detail (Currently Approved)	Proposed amendment	
A	BSc (Hons) Physics:	BSc (Hons) Physics: Aims of programme updated Intended Learning outcomes updated Teaching and Learning strategies updated	

		<p>[NO ACTION FOR SA]</p> <p>Rolling in/rolling out programme structures – see diagrams at the end of this form</p> <p>[ACTION FOR SA]</p>
B		<p>BSc (Hons) Pure & Applied Physics BSc (Hons) Physics with Acoustics MPhys (Hons) Physics MPhys (Hons) Physics with Acoustics MPhys (Hons) Physics with Studies in North America Amended rolling out programme structures</p>
C		<p>New module: L4 Electricity, Magnetism and Light (20 credits) Long thin, S4 Coursework: Assignment 1, 50% Coursework: Assignment 2, 50%</p> <p>[ACTION FOR SA]</p>
D		<p>New module: L4 Mathematics (20 credits) Long thin, S4 Coursework: Assignment 1, 50% Coursework: Assignment 2, 50%</p> <p>[ACTION FOR SA]</p>
E		<p>New module: L4 Mechanics, Relativity and Quantum Physics (20 credits) Long thin, S4 Coursework: Assignment 1, 50% Coursework: Assignment 2, 50%</p> <p>[ACTION FOR SA]</p>
F		<p>New module: L4 Modelling of Physical Systems (20 credits) Long thin, S4 Coursework: Assignment: Dynamics of Physical Systems, 50% Coursework: Assignment: Waves & Thermal Physics, 50%</p> <p>[ACTION FOR SA]</p>
G		<p>New module: L4 Physics Laboratory 1 (20 credits) Long thin, S4 Practical: Laboratory Skills Journal, 50% Coursework: Experimental Physics Journal, 50%</p> <p>[ACTION FOR SA]</p>
H		<p>New module: L4 Physics in Context (20 credits) Long thin, S4 Coursework: Problem Solving Journal, 70% Coursework: Energy Research, 30%</p> <p>[ACTION FOR SA]</p>
I		<p>New module:</p>

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		<p>L5 Electromagnetism (20 credits) Short fat, S1 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]</p>
J		<p>New module: L5 Group Project (20 credits) Short fat, S2 Coursework: CAD and interfacing design exercises, 30% Coursework: Group Project (report and presentation), 3000 words + 20 mins, 70% [ACTION FOR SA]</p>
K		<p>New module: L5 Physics Laboratory 2 (20 credits) Short fat, S1 Coursework: Experimental Journal, 50% Coursework: Computing Journal, 50% [ACTION FOR SA]</p>
L		<p>New module: L5 Quantum Physics (20 credits) Short fat, S2 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]</p>
M		<p>New module: L5 Thermal Physics (20 credits) Short fat, S1 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]</p>
N		<p>New module: L5 Waves & Optics (20 credits) Short fat, S2 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]</p>
O		<p>New module: from 22/23 L6 Astrophysics & Planetary Physics (20 credits, optional) Short fat, S2 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]</p>
P		<p>New module: from 22/23 L6 Condensed Matter Physics (20 credits, core) Short fat, S1 Coursework: Assignment, 30% Written: Examination, 3 hours, 70% [ACTION FOR SA]</p>
Q		<p>New module: from 22/23 L6 Physics Laboratory 3 (20 credits, core) Short fat, S1</p>

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		Coursework: Laboratory Journal, 70% Coursework: Report in Style of Scientific Paper, 30% [ACTION FOR SA]
R		New module: from 22/23 L6 Nuclear & Particle Physics (20 credits, core) Short fat, S2 Coursework: Assignment, 30% Written: Examination, 3 hours, 70% [ACTION FOR SA]
S		New module: from 22/23 L6 Photonics & Nanotechnology (20 credits, optional) Short fat, S2 Coursework: Assignment, 50% Written: Examination, 2 hours, 50% [ACTION FOR SA]
T	L6 Project in Physics (40 credits, core) Long thin, S4 Coursework: Project Output, 50% Coursework: Portfolio (Dissertation, Presentation and Defence), 50% [ACTION FOR SA]	L6 Project in Physics (40 credits, core) Long thin, S4 Coursework: Progress Report, 20% Coursework: Journal, 30% Coursework: Dissertation, presentation/defence, 6000 words + 20 mins, 50% [ACTION FOR SA]
5	Rationale for the proposed changes	
	The proposed changes are designed to both meet both the CEP project objectives and recent changes in emphasis associated with professional body accreditation by the Institute of Physics. To this end the core physics topics required by the IoP have been covered in a smaller number of modules facilitating an offering at level 6 reflecting Salford specialities alongside the relevance of physics to a broad range of areas. An increased emphasis on employability has been embedded throughout.	
	NOTE: If this change would result in programme or module codes needing to be withdrawn, additional documentation will need to be completed and submitted with this form (details at the end of this form).	
6	Proposed implementation schedule Include detail by academic year and cohort (e.g. January start programmes)	
	Cohort	Term Code
	Sept 2021 and Sept 2020	202110, 202210
	Notes – existing Level 6 structure to be delivered in 21/22. All new Level 6 modules are with effect from Sept 2022	
	Proposed new structure to be delivered at Level 4 and 5 from 21/22 onwards.	
7	Do some applicants to this programme require Academic Technology Approval Scheme (ATAS) clearance?	No
	Will this change affect the ATAS requirements for the programme?	No
	NOTE: If this amendment lies outside the Academic Regulations for Taught Programmes, you must complete and attach the Programme Specific Regulations (PSR) form before the change can be implemented.	
8	Consultation with interested parties	
	Please provide details of consultations undertaken with the following parties. Please include details of outcomes where appropriate.	
	Employers N/A	

Comment [LC1]: Exception to regs will be required for 3 assessments

	<p>Professional, Statutory and Regulatory Bodies (current or future): Changes in part due to the broader consultations the Institute of Physics has undertaken with the physics community regarding changes to the accreditation criteria.</p> <p>Other Schools involved in delivery of the programme/module N/A</p>
9	<p>External Examiner Comments</p> <p>External Examiners must be consulted for all changes. They should be given access to all appropriate documentation (e.g Prog/Mod specs) in addition to being notified of the change. Please provide evidence of their response to the proposal.</p> <p>Responses from 2 external examiners included below following consideration of documentation associated with the proposed changes.</p> <p>Dear Ian,</p> <p>Thank you for sending the document outlining the proposal for restructuring the Salford Physics Degree and for the opportunity to discuss this with you and Dan. I support your proposals and would like to make a few comments about them. I was reassured to learn that the IOP Core of Physics will continue to be covered in the new structure and that this has rightly been a key point in your considerations.</p> <p>I think that the removal of some of the duplication of material in different modules is a positive step forward and that covering the mathematics in the context of relevant physics modules has merit.</p> <p>It is also pleasing to see that the development of practical and computing skills remain an important aspect of the degree. In terms of the assessments, I know from my own institution that there is a pressure to reduce the number of assessments and that the COVID-19 restrictions have counterbalanced this with a drive away from single assessments for modules. Having 2 assessments is probably a reasonable middle path.</p> <p>I think it is regrettable that the M.Phys. degree is being suspended and hope this will not be permanent. My impression of your top M.Phys. students over my time as an external examiner has been very positive and it would be a shame if your future cohorts are denied the opportunity to take their studies to this level. I am also concerned that it could impact negatively on your recruitment.</p> <p>Yours, Robert. Prof Robert Page – Department of Physics, University of Liverpool</p> <p>Hello Ian,</p> <p>Below are my comments on the programme changes. Please let me know if you would like me to add more detail.</p> <p>The proposed changes to the curriculum are reasonable and care has been taken to ensure that the topics required for Institute of Physics accreditation have been retained. The new structure offers benefits such as flexibility when key mathematical concepts are introduced in physics modules and the inclusion of a standalone laboratory module at Level 4 should streamline delivery. The new emphasis on training students from the beginning of their studies onwards to use computers to solve problems is very welcome. This better reflects the realities of modern physics and will provide students with the tools needed to tackle a wide range of problems both during their studies and in the workforce.</p> <p>Kind regards,</p> <p>Kevin Dr Kevin O’Keeffe – Department of Physics, Swansea University</p>
10	<p>Is this Programme/Module delivered at any partner institutions? No</p>

All delivering partners must be consulted regarding this change, including being provided the revised specifications. Please give details of these consultations and evidence of their responses.		
11 Will the proposed change result in a protected group being impacted differently to the general student population studying the programme?		
Care should be taken to ensure no particular group is advantaged or disadvantaged by this change.		
	Yes	No
Disability	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sexual Orientation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sex	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gender Reassignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Race (including colour, nationality, ethnic or national origin)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Marriage/civil partnership	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Maternity/pregnancy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Age	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Religion or belief (or lack of religion/belief)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Answering yes to any of these questions will require an updated Equality Impact Assessment to be submitted with this PMAF for any affected programmes.		
12 Have all students who may be affected by the proposed change been consulted and consent obtained?		Choose an item.
Consultation Start Date		Consultation End Date
Consultation detail and outcome. Include any responses from students.		
First Year students consulted on proposed changes at L5 and L6 on 16 May 2021.		
L3 students consulted by email on 11 May 2021 re whole programme – meeting planned for week beginning 17 May 2021.		
L4 students consulted by email on 16 April 2021 by email with an on-line meeting held on the 28 April 2021. No significant comments or concerns raised. Follow up email consultation on the 10 May 2021 containing information about the revised options at L6.		
13 Publicly available information		
Following approval, it is the responsibility of the programme/module leader to ensure all publicly available materials are updated. This includes the following: <ul style="list-style-type: none"> All website information, including CourseFinder All Handbooks (programme and module) All Open Day and Applicant Visit Day information Applicants to the course who may be affected by this change will need to be informed of the proposed changes.		
Please confirm that you will update all publicly available materials after approval		Yes
Please confirm that you have completed the UPS form to inform applicants of changes		Choose an item.
14 Are there any resource implications as a result of these changes?		No Resource Implications
Please give brief details, such as additional equipment, library, DIT Services, teaching space or student		

accommodation.		
	Date Signed Off	Comments
Financial Implications (RSI(1) completed)		
Additional Resources (RSI(2) completed)		
15 Suitability of staffing resources		
Please confirm there is appropriate subject knowledge and expertise to deliver these changes to the programme/module within the current staffing resource.		
No additional staffing resources required		
16 School Approvals – Subject level		
Please confirm that all affected programme leaders have been consulted		Yes
Please confirm that subject lead/directorate head has authorised this change		Yes
Please include any relevant details of consultations with programme/module teams and their outcomes		
17 School Approval – Resource implications		
The school confirm the programme's continued alignment with ARTP, ICZ curriculum principles and other relevant policies and procedures.		
Signed:		Date:
Associate Dean Academic		
Signed:		Date:
Dean of School on behalf of School Executive Required where there is a resource implication.		
17 School Approval – No resource implications		
The school confirm the programme's continued alignment with ARTP, ICZ curriculum principles and other relevant policies and procedures.		
Signed:		Date:
Associate Dean Academic		
The following documentation may be required and should be submitted for approval, as appropriate, with this PMAF form:		
Revised Programme Specifications (within PaMIS) including CourseFinder information Revised Module Specifications (within PaMIS) Revised Assessment Map (within PaMIS)		

PSR Form (Programme Specific Regulation Request) SCA Form (Student Consultation form) UPS Form (Updating Prospective Students form) PW/MW Forms (Module/Programme Withdrawal form) EIA Form (Equalities Impact Assessment form) RSI(1) Form – Financial Resource Implications form RSI(2) Form – Additional Resource Implications form
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Structure diagram for September 2021 intake

All modules 20 credits unless stated

BSc (Hons) Physics:

			Intake
Level	Year	Trimester	September F/T
4	1	1	Mechanics, Relativity and Quantum Physics Electricity, Magnetism and Light Modelling of Physical Systems Mathematics
		2	Physics in Context Physics Laboratory 1
		3	
5	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
6	3	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

BSc (Hons) Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4	1	1	Mechanics, Relativity and Quantum Physics Electricity, Magnetism and Light Modelling of Physical Systems
		2	Mathematics Physics in Context Physics Laboratory 1
		3	
5 Stage 1	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
5	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)

Stage 2		2	
		3	
6	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

Optional Module List

Module Title	Credits	Level	Tri	School of origin	Status	Rules	Prerequisites
Group Project	20	5	2	SEE	Option Group A	Students must select 1 optional module from option group A	None
Educational Principles and Practice in STEM	20	5	2	SEE	Option Group A		None
Principle of Acoustics	20	5	2	SEE	Option Group A		None
Foreign Language	20	5	1/2	Languages	Option Group A		None
Astrophysics and Planetary Physics	20	6	2	SEE	Option Group B	Students must select 1 optional module from option group B	None
Photonics and Nanotechnology	20	6	2	SEE	Option Group B		None

Structure diagram for September 2020 intake

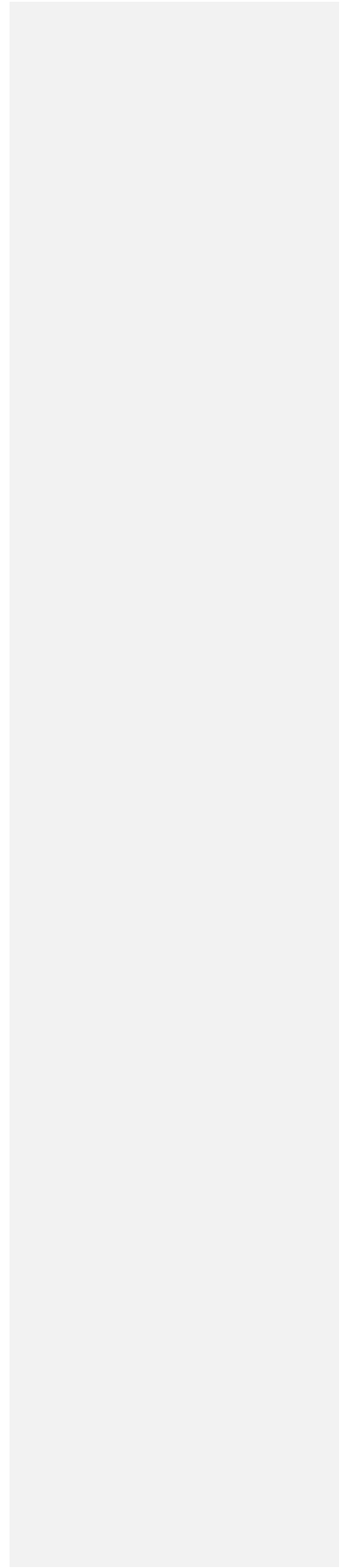
BSc (Hons) Physics:

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
6 2022- 23	3	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

BSc (Hons) Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22 Stage 1	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
5 2022- 23 Stage 2	3	3	
		1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
3			
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

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MPhys (Hons) Physics:

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
6 2022- 23	3	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	
7 2023- 24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

MPhys (Hons) Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22 Stage 1	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
5 2022- 23 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)

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		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	
7 2024- 25	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

MPhys (Hons) Physics with Studies in North America:

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
6 2022- 23	3	1	Year spent at University of Toledo, USA
		2	
		3	
7 2023- 24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

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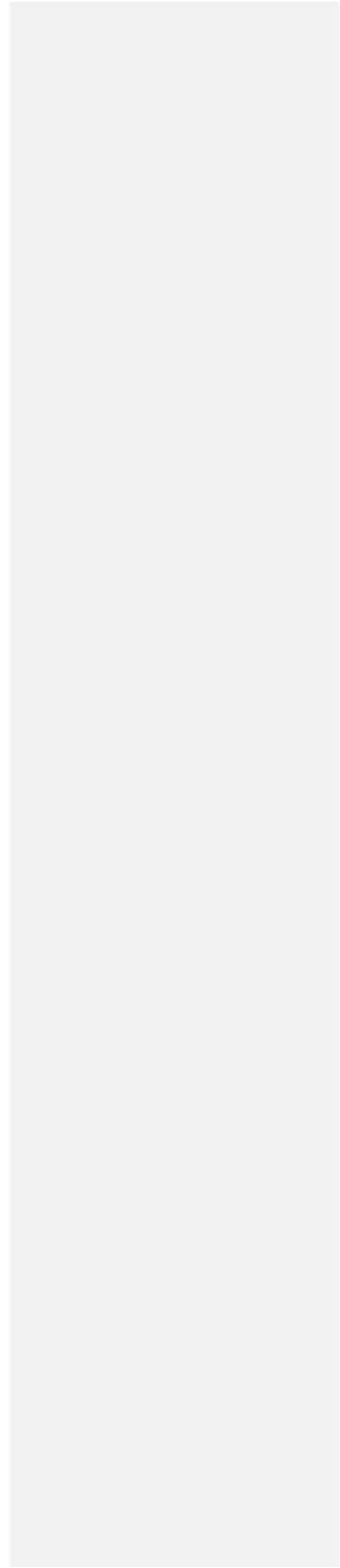
BSc (Hons) Pure & Applied Physics:

Level	Year	Trimester	Intake
			September F/T
4 2020- 21	1	1	Pure & Applied Mathematics for Physics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Pure & Applied Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
6 2022- 23	3	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

BSc (Hons) Pure & Applied Physics with Professional Experience

Level	Year	Trimester	Intake
			September F/T
4 2020- 21	1	1	Pure & Applied Mathematics for Physics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Pure & Applied Mathematics and Computing
		3	
5 2021- 22 Stage 1	2	1	Electromagnetism Physics Laboratory 2 Thermal Physics
		2	Quantum Physics Waves & Optics 20 credits from Option Group A
		3	
5 2022- 23 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

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BSc (Hons) Physics with Acoustics:

No optional modules

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Thermal Physics
		1&2	Digital Signal Processing Physics Laboratory (EXISTING MODULE)
		2	Quantum Physics Principles of Acoustics
		3	
6 2022- 23	3	1	Condensed Matter Physics Speech & Musical Acoustics
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics Computer Simulation for Acoustics
		3	

BSc (Hons) Physics with Acoustics with Professional Experience

No optional modules

			Intake
Level	Year	Trimester	September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22 Stage 1	2	1	Electromagnetism Thermal Physics
		1&2	Digital Signal Processing Physics Laboratory (EXISTING MODULE)
		2	Quantum Physics Principles of Acoustics
5 2022- 23 Stage 2	3	3	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		1	
		2	
6 2023- 24	4	1	Condensed Matter Physics Speech & Musical Acoustics
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics Computer Simulation for Acoustics
		3	

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MPhys (Hons) Physics with Acoustics:

No optional modules

Level	Year	Trimester	Intake
			September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22	2	1	Electromagnetism Thermal Physics
		1&2	Digital Signal Processing Physics Laboratory (EXISTING MODULE)
		2	Quantum Physics Principles of Acoustics
		3	
6 2022- 23	3	1	Condensed Matter Physics Speech & Musical Acoustics
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics Computer Simulation for Acoustics
		3	
7 2023- 24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

MPhys (Hons) Physics with Acoustics with Professional Experience

No optional modules

Level	Year	Trimester	Intake
			September F/T
4 2020- 21	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2021- 22 Stage 1	2	1	Electromagnetism Thermal Physics
		1&2	Digital Signal Processing Physics Laboratory (EXISTING MODULE)
		2	Quantum Physics Principles of Acoustics
		3	
5 2022- 23 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6	4	1	Condensed Matter Physics

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2023-24			Speech & Musical Acoustics
	1&2		Project in Physics (40 credits)
	2		Nuclear and Particle Physics Computer Simulation for Acoustics
	3		
7 2023-24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

Optional Module List for Sept 2020 intake

Module Title	Credits	Level	Tri	School of origin	Status	Rules	Prerequisites
Group Project	20	5	2	SEE	Option Group A	Students must select 1 optional module from option group A	None
Educational Principles and Practice in STEM	20	5	2	SEE	Option Group A		None
Principle of Acoustics	20	5	2	SEE	Option Group A		None
Foreign Language	20	5	1/2	Languages	Option Group A		None
Astrophysics and Planetary Physics	20	6	2	SEE	Option Group B	Students must select 1 optional module from option group B	None
Photonics and Nanotechnology	20	6	2	SEE	Option Group B		None

Structure diagram for September 2019 intake – non placement

BSc (Hons) Physics:

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2020- 21	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
6 2021- 22	3	1	Nuclear and Particle Physics Maxwell's Equations and Wave Optics Quantum Mechanics of Atoms, Molecules and Solids
		2	Project (40 credits) 20 credits from Option Group B
		3	

BSc (Hons) Pure & Applied Physics:

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Pure & Applied Mathematics for Physics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Pure & Applied Mathematics and Computing
		3	
5 2020- 21	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
6 2021- 22	3	1	Nuclear and Particle Physics Maxwell's Equations and Wave Optics Quantum Mechanics of Atoms, Molecules and Solids
		2	Project (40 credits) 20 credits from Option Group B
		3	

2019/20

Optional Module List September 2019 intake – non placement

Module Title	Credits	Level	Tri	School of origin	Status	Rules	Prerequisites
Physics of the Universe	20	5	1&2	SEE	Option Group A	Students must select 1 option module from option group A	None
Principles of Acoustics	20	5	1&2	SEE	Option Group A	Students must select 1 option module from option group A	None
Foreign Language	20	5	1&2	Salford Languages	Option Group A	Students must select 1 option module from option group A	None
Speech & Musical Acoustics	20	6	1	SEE	Option Group B	Students must select 1 option module from option group B	None
Photonics & Nanotechnology	20	6	1&2	SEE	Option Group B	Students must select 1 option module from option group B	None
Theoretical Physics	20	6	1&2	SEE	Option Group B	Students must select 1 option module from option group B	None
Foreign Language	20	6	1&2	Salford Languages	Option Group B	Students must select 1 option module from option group B	None

Structure diagram for September 2019 intake – with placement

BSc (Hons) Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2020- 21 Stage 1	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
5 2021- 22 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

BSc (Hons) Pure & Applied Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Pure & Applied Mathematics for Physics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Pure & Applied Mathematics and Computing
		3	
5 2020- 21 Stage 1	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
5 2021- 22 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics

2019/20

		20 credits from Option Group B
	3	

BSc (Hons) Physics with Acoustics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Pure & Applied Mathematics for Physics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Pure & Applied Mathematics and Computing
		3	
5 2020- 21 Stage 1	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Digital Signal Processing Principles of Acoustics
		3	
5 2021- 22 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2023- 24	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	

2019/20

MPhys (Hons) Physics with Professional Experience

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2020- 21 Stage 1	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
5 2021- 22 Stage 2	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	
		3	
6 2022- 23	4	1	Condensed Matter Physics Physics Laboratory 3
		1&2	Project in Physics (40 credits)
		2	Nuclear and Particle Physics 20 credits from Option Group B
		3	
7 2023- 24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

MPhys (Hons) Physics with Acoustics with Professional Experience

No optional modules

			Intake
Level	Year	Trimester	September F/T
4 2019- 20	1	1	Mathematics
		1 & 2	Fundamentals of Physics A Fundamentals of Physics B Fundamentals of Physics C Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5 2020- 21 Stage 1	2	1	Classical and Quantum Waves Properties of Matter Mathematical Methods and Applications
		2	Physics Laboratory Digital Signal Processing Principles of Acoustics
		3	
5 2021- 22	3	1	CSE Industrial Placement (2-4 semesters in length) (60 credits)
		2	

Stage 2		3	
6 2022- 23	4	1	?? Physics Laboratory 3 Speech & Musical Acoustics
		1&2	Project in Physics (40 credits)
		2	Computer Simulation for Acoustics ??
		3	
7 2023- 24	4	1	Advanced Quantum Mechanics (30 credits)
		1&2	Research Project (60 credits)
		2	Thin Films and Materials Characterisation (30 credits)
		3	

Optional Module List for September 2019 entry placement students

Module Title	Credits	Level	Tri	School of origin	Status	Rules	Prerequisites
Physics of the Universe	20	5	1&2	SEE	Option Group A	Students must select 1 optional module from option group A	None
Principle of Acoustics	20	5	2	SEE	Option Group A		None
Foreign Language	20	5	1/2	Languages	Option Group A		None
Astrophysics and Planetary Physics	20	6	2	SEE	Option Group B	Students must select 1 optional module from option group B	None
Photonics and Nanotechnology	20	6	2	SEE	Option Group B		None