UNIVERSITY OF SALFORD

PROGRAMME SPECIFICATION

See Programme Specification Guidance for advice and guidance when completing this form. You can also contact the Quality and Enhancement Office for guidance completing this form on <u>QEO-General@salford.ac.uk</u>

This form is available to download from <u>http://www.governance.salford.ac.uk/page/aqa_forms</u>).

Date of completion:	12/01/2016
Office Use	26/01/2016
Date approved by PARP:	

Stag	je 1 Business	Case Approva	al Sections 1 – 23			
1	Awarding ins	titution/body	University of Salford			
2	Taught at		University of Salford			
3	Not Used					
4	School(s) res		Lead School	Additional School		
			School of Computing, Science & Engineering	Choose an item.		
5	Links with pa institutions	rtner	None			
6	Externally ac	credited by	The Institute of Physics			
7	and	Final award (s)	MPhys (Hons)			
	Terminating Qualifications	Programmes for admission	MPhys (Hons) Physics MPhys (Hons) Physics with Acoustics MPhys (Hons) Physics with Studies in N	North America		
	(ITQs)	ITQs	BSc (Hons) Cert HE Dip HE			
8	FHEQ level of qualification	of the	Level 7 - Integrated Masters/PgCert/PgDip/Masters/MRes			
9	Programme t	itle	Physics Physics with Professional Experience Physics with Acoustics Physics with Acoustics with Professional Experience Physics with Studies in North America			
10	Aims of the p	orogramme	The programme aims to give a unified, of which is at the forefront of the discipli level on problem solving and the acquis to communicate. This is achieved through a combination Within modules, an emphasis is placed	of theoretical and practical modules. on problem solving skills, both practical ysics in a diverse range of settings. The ed education to masters level for those hysics whether it be in academia or		
			 Provide information at a suitable physics, at level 7 this informati discipline in selected areas; Develop deep analytical, critica Develop expert experimental ar Develop communication and stress 	e level in a broad range of areas in on will be at the forefront of the I and advanced problem solving skills; nd/or computational skills; udy skills; ange of careers paths for physics		

		The Physics with Acoustics programmes in addition provide information and develop skills in the area of acoustics.									
11	Length of programme (in each mode)	Four years full Five years full		ncludir	ng opti	ional I	ndustr	ial Pla	cemen	t (Physics and	
		Physics with Acoustics programmes only)									
12	Mode(s) of attendance/ delivery and intakes	Face to E- Blended (combination of							٦		
	delivery and imakes		Face to face		E- learning		face to face and				
		Intakes	F/T	P/T	F/T	P/T	F/T	P/T	deliv than	ered by	
		September	✓								-
		October									
		November									-
		December									
		January									
		February									
		March									
		April									
		May									
		June									
		July									
		August									
13	Language of study	English									
14	Month and year of	MPhys Physic								America	
	commencement	This version w	ith effe	ect froi	m 201	6-201	7 for a	ll leve	ls.		
15	Date teaching starts	Original version <i>First year of t</i>	vels 4, on: Sep	5 and	6, 20 er 201	19-20 2	onwai	rds for	all leve	for levels 4 an els. this programm	
15	Date teaching starts	Intakes		mana				ning		uns programm	C
		IIItakes		num		n		akes		Almanac we	ek
		September		1				anoo		number	U.N.
		October					Se	ptemb	ber	1	
		November						tober	-		
		December						vemb	er		
		January					De	ecemb	er		
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		April						arch			
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		June					Ma				
		July					Ju				
		August					Ju	iy igust			
16	Office use Funded by	Funding Coun	cil					igust	L		
17	Entrance requirements	Applicants mu the specific en							al Entr	y Requirement	t and
		General Entry	-								
		The General E Admissions ar Degree/Integra	nd Rete	ention	Policy	, deta	il for C				chelor's

		Programme Specific Academic Entry Requirements
		Applicants must have the equivalent of:
		 grade C or above GCSE English and
		 grade B or above mathematics (GCE Advanced level) and
		grade B or above physics (GCE Advanced level)
		Applicants must have the required number of UCAS points (to be advised by the School).
		This programme includes a module(s) that has a subject JACS code that requires applicants from outside the European Economic Area (EEA) and Switzerland to hold an Academic Technology Approval Scheme (ATAS) certificate.
		Accreditation of Prior Learning An applicant who does not possess one of the qualifications which satisfies the General Academic Entry Requirement may be considered through the Accreditation of Prior Learning (APL) (both Certified Prior Learning and/or one Prior Experiential Learning) as per the University's Admissions and Retention Policy.
		English Language Requirements Applicants must satisfy the University's English Language requirements as per the University's Admissions and Retention Policy .
		Applicants whose native tongue is not English must possess a current qualification deemed acceptable by the University as evidence of proficiency in the English Language. This qualification must equate to a minimum average score of 6 or above (and for each component 5.5 or above) from the Cambridge/British Council English Language Testing Service (IELTS) or alternative examinations as recognised by the University.
18	Is a Salford UCAS code required?	Yes
19	Responsibility for administration of the programme	School of Computing, Science & Engineering
20	Programme structure	For programme content, please see the module specifications. The programme structure is below:

Programme Structure

All modules are 20 credits unless otherwise stated.

Students on the Physics with Acoustics and Physics with Acoustics with Professional Experience programmes have no optional modules.

For all programmes it is possible to take a placement year following successful completion of level 5.

Students on the MPhys Physics with Studies in North America programme spend level 6 at our partner institution – University of Toledo, USA – pursuing an equivalent year of academic study.

Physics Physics with Professional Experience Physics with Acoustics Physics with Acoustics with Professional Experience Physics with Studies in North America

MPhys (Hons) Physics:

			Intake
Level	Year	Semester	September F/T
4	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	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	3	1	Nuclear and Particle Physics
			Maxwell's Equations and Wave Optics
			Quantum Mechanics of Atoms, Molecules and Solids
		2	Theoretical Physics
			3 rd Year Short Project
			20 credits from Option Group B
		3	
7	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

	ľ í	-	Intake
Level	Year	Semester	September F/T
4	1	1	Mathematics
		1&2	Fundamentals of Physics A
			Fundamentals of Physics B
			Fundamentals of Physic C
			Frontiers of Physics and Entrepreneurial Skills
		2	Mathematics and Computing
		3	
5	2	1	Classical and Quantum Waves
			Properties of Matter
Stage			Mathematical Methods and Applications
1		2	Physics Laboratory
			Computing Laboratory
_			20 credits from Option Group A
5		3	
01	3	1	
Stage		2	CSE Industrial Placement (2-4 semesters in length) (60 credits)
2		3	
6	4	1	Nuclear and Particle Physics
		2	Maxwell's Equations and Wave Optics
			Quantum Mechanics of Atoms, Molecules and Solids
			Theoretical Physics
			3 rd Year Short Project
			20 credits from Option Group B
		3	
7	5	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:

			Intake
Level	Year	Semester	September F/T
4	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	2	1	Classical and Quantum Waves
			Properties of Matter
			Mathematical Methods and Applications
		2	Physics Laboratory
			Digital Signal Processing
			Principles of Acoustics
		3	
6	3	1	Nuclear and Particle Physics
			Maxwell's Equations and Wave Optics
			Quantum Mechanics of Atoms, Molecules and Solids
		2	3 rd Year Short Project
			Psychoacoustics and Musical Acoustics
			Speech and Signal Processing
		3	
7	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

			Intake
Level	Year	Semester	September F/T
4	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	2	1	Classical and Quantum Waves
			Properties of Matter
Stage			Mathematical Methods and Applications
1		2	Physics Laboratory
			Digital Signal Processing
			Principles of Acoustics
5		3	
	3	1	
Stage		2	CSE Industrial Placement (2-4 semesters in length) (60 credits)
2		3	
6	4	1	Nuclear and Particle Physics
		2	Maxwell's Equations and Wave Optics
			Quantum Mechanics or Atoms, Molecules and Solids
			3 rd Year Short Project
			Psychoacoustics and Musical Acoustics
			Speech and Signal Processing
		3	
7	5	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	Semester	September F/T
4	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	2	1	Classical and Quantum Waves

		2	Properties of Matter Mathematical Methods and Applications Physics Laboratory Computing Laboratory 20 credits from Option Group A
		3	
6	3	1	
•	-	2	Year spent at University of Toledo, USA
		3	
7	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

Module Title	Credits	Level	Sem	School of origin	Status	Rules	Prerequisites
Physics of the Universe	20	5	1&2	CSE	Option Group A	Students must select 1 option module from option group A	None
Principles of Acoustics	20	5	1&2	CSE	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
Photonics & Nanotechnology	20	6	1&2	CSE	Option Group B	Students must select 1 option module from option group B	None
Psychoacoustics & Musical Acoustics	20	6	1&2	CSE	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

21	Requirements for progression at each level, plus the criteria on which the final award is based	Requirements for progression are governed by the Academic Regulations for Taught Programme.
22	HESA subject code	F303 – MPhys Physics
		F385 – MPhys Physics with Acoustics
		F304 – MPhys Physics with Studies in North America
23	Marketing JACS	F300, F303,
	code	F304, F385

Stage 2 Academic Approval Sections 24 – 30

This section should be read in conjunction with module specifications

24	Relevant Subject	The syllabus has been designed to meet the requirements of the professional
	Benchmarking	accrediting body, The Institute of Physics, as laid out in the "The Physics Degree,
	statements (and	Graduate Skills Base and the Core of Physics", Institute of Physics (2014)
	any other	
	reference points)	In addition the following two publications have been used as reference points in
		developing the programme aims and intended learning outcomes.QAA, UK Quality
		Code for Higher Education, FHEQ descriptors for BSc (Hons) programmes (20014)

	QA	A Benchmark statements for Physics, Astronomy and Astrophysics (2008)
25 Intended Lea Outcomes NOTE: This section shou repeated for EACH ITQ a the final awa	uld be L4. r L4. and L4.	 The application of the laws of physics to a range of topics The ability to frame and solve basic problems in physics
	On L4. L4. L4. L4. L4.	 Use computers both to obtain numerical solutions to equations and to analyse data using software packages Perform experimental investigations, reporting data with quantified precision Apply their knowledge to carry out well-defined projects Communicate results and basic concepts through scientific reports and presentations
	On and	 ansferable Skills successful completion of this level/stage the student will have the following qualities d transferable skills necessary for employment: 10 The exercise of some personal responsibility and the ability to interact constructively as a team
	Kno	 The application of the laws of physics to a diverse range of topics The ability to frame, model and solve problems in physics
	On L5. Tra On and L5. L6. L6. L6. L6. Pra	 results or theories Apply computer programming both to solve open-ended problems in physics and to automate measurement through interfacing Set-up and perform experimental investigations, reporting data with quantified precision and critically evaluated accuracy Apply their knowledge and understanding to specify and carry out open-ended group projects Communicate clearly through extended reports and presentations ansferable Skills successful completion of this level/stage the student will have the following qualities d transferable skills necessary for employment: The exercise of initiative and personal responsibility, the ability to interact constructively as a team, and decision making skills vel 6 / BSc (Hons) owledge and Understanding successful completion of this level/stage the student will be able to demonstrate: A systematic knowledge and understanding of the fundamental laws of physics, some of which are derived from the forefront of the field The application of the laws of physics to a diverse range of topics, some of which are at the forefront of the field The ability to frame, model and solve complex problems in physics

 L6.5 Analyse and evaluate experimental data, comparing with published hypotheses and theories, including a critical appreciation of their applicability L6.6 Apply computer programming and software packages as an aid to open-ended research L6.7 Research, design and perform investigations, reporting results with quantified precision and critically evaluated accuracy L6.8 Communicate clearly through extended scientific reports and through oral
 presentations with subsequent questioning L6.9 Apply their knowledge and understanding to specify and execute open ended individual projects
 <u>Transferable Skills</u> On successful completion of this level/stage the student will have the following qualities and transferable skills necessary for employment: L6.10 The exercise of initiative and some personal responsibility, the ability to interact constructively as part of a team, and decision making skills in complex and unpredictable contexts L6.11 An ability to manage resources, time and their own learning
 Level 7 / Integrated Masters Knowledge and Understanding On successful completion of this level/stage the student will be able to demonstrate: L7.1 A systematic knowledge and understanding of most fundamental laws of physics, some of which are informed by the forefront of the field L7.2 The application of the laws of physics to a diverse range of topics, some of which are at the forefront of the field L7.3 The ability to frame, model and solve advanced problems in physics, L7.4 The critical selection of symbolic and numerical mathematical techniques central to physics, including obtaining order-of-magnitude or more precise solutions as appropriate
 Practical, Professional or Subject Specific Skills On successful completion of this level/stage the student will be able to: L7.5 Demonstrate an effective use of computers and specialist software packages as an aid to open-ended research L7.6 Plan and execute experimental investigations, reporting results with quantified precision and critically evaluated accuracy L7.7 Communicate complex scientific ideas, the conclusions of an experiment, investigation or project concisely, accurately and informatively through extended scientific reports, posters, and through oral presentations with subsequent questioning L7.8 Apply their knowledge and understanding to research, plan, propose and manage open-ended individual projects
 <u>Transferable Skills</u> On successful completion of this level/stage the student will have the following qualities and transferable skills necessary for employment: L7.9 The exercise of initiative and some personal responsibility and decision making skills in complex and unpredictable contexts L7.10 An ability to manage resources, time and their own learning
The following grid maps modules to programme ILOs:
Level 4 1 2 3 4 5 6 7 8 9 10
Fundamentals of Physics AXXXXXX
Fundamentals of Physics BXXXXXEXXXXX
Fundamentals of Physics CXXXXXXXXXXX

Mathematics				x								
Mathematics and Computing				x		x						
Frontiers of Physics and Entrepreneurial Skills			X		x		x	x	X	X		
Level 5	1	2	3	4	5	6	7	8	9	10		
Classical and Quantum Waves	X	X	X	X	X							
Properties of Matter	Χ	x	x	X	x							
Physics of the Universe	Х	х	х	x	x							
Mathematical Methods and Applications	X	x	x	x								
Physics Laboratory		x			x		x	x	x	x		
Computing Laboratory		x	x	x		x						
Digital Signal Processing (Acoustics only)	X	x	X	x		X						
Principles of Acoustics	Χ	x	x	x								
Level 6	1	2	3	4	5	6	7	8	9	10	11	
Nuclear and Particle Physics	X	X	Χ	X	X							
Maxwell's Equations and Wave Optics	Χ	x	x	x								
Photonics and Nanotechnology	X	x	x	x	x							
Quantum Mechanics of Atoms, Molecules and Solids	X	x	x	x	x							
Theoretical Physics	Х	x	x	x		x						
3 rd Year Short Project						x	x	x	x	x	X	
Psychoacoustics and Musical Acoustics	X	x	x	x								
Speech and Signal Processing (Acoustics only)	X	x	x	x		x						
Level 7	1	2	3	4	5	6	7	8	9	10		
Advanced Quantum Mechanics	X	x	x	x	x							
Thin Films and Materials Characterisation	Χ	х	х	х		x						

1															
		Research Project					Χ		Χ	X	X	Χ			
26	Teaching, learning and assessment strategies	Traditionally, physics of broad range of core to designed to accommon plentiful opportunities to contexts and situations	pics. date to app	The t this b	eachi road	ng ar knowl	nd lea ledge	rning base	strat , whi	egy a Ist all	dopte owing	ed ha the s	s bee stude	n nts	1
		Level 4													
		Core Underpinning P based sessions that an between knowledge an <u>Classroom-based Sess</u> and access to Pearson core text and a suite o classroom-based sess sessions comprising a blend of teacher-centre <u>Independent Study</u> : M learning tutorials from In addition, a series of classroom-based sess solutions. <u>Laboratory-based sess</u> / computer interfacing, computational skills fo formative exercises, w assessment in the sec into practice.	re spend ap sions sions n's 'M f self- ion, s discu ed an ateria mast prob ions. sions key o r data ith ve	ecific plicat plicat caster learn specifussion d lean from ering lem b Form Form a ana erbal a	to the tion. th stud- ting P ting ex- tic rea n of th rner-con eacl physio- based to ased to ase foc- rical m lysis. and w	e relev dent is hysics xamp iding the key centre h sessics, w exerce feedl cus or neasu The fir	/ant r s pro s', wh les, tr from / idea d pro sion i hich cises back	vided nich co utoria the co as fror oblem s rein conta is giv elopir ent an emest back,	e, in with ontair ls and ore te n the solvi force in hin en to en ve d rep ter co follow	order a har ns an d exe ext is g read ng ex d by s reinfo erbally y skill orting ompris	to for elect rcises given, ing su ercise specified inte orce to and s inclusion s sinclusion s s	rge a y of t ronic s. Bef with uppor es. <u>G</u> fic on ractiv he id throu uding s and serie nmat	clear he co copy ore e the ted w uided line s ve fee eas fr gh wo lelect s of ive	link re tex of the ach ith a self- dback om th orked	e k. ne s
		Mathematics : A stron- mathematical skills, wi pen-and-paper-based through a blend of tea	th a t and c	hird o comp	of leve utatio	el 4 de nal-ba	edica [.] ased.	ted to Teac	math hing	nemat and l	tics, b earnir	oth ti ng is a	raditic achie		
		Problem-based Learn Entrepreneurial Skills based learning classes experiences of practisi module provides enha developing core skills general report writing a environments in which enhanced feedback, w hands-on problem-bas feedback on employab	Modu s and ing pl nced in col and ir high vith er sed ta	ile, w regu nysici team labor ntrodu -tech mpha isks a	hich in lar op sts fro build ative ucing nolog sis be and fo	portu portu om a ling, p team stude y orga eing p llowin	orate nities range blanni work ents to anisa lacec og pre	s wee for s of in ing ar ing, p to the tions l on ir esenta	ekly, ł tuder dustr nd res reser entre opera nstant ations	neavil nts to ies ar search ntation prene ate. A t verb s, in a	y tuto meet nd org n opp n, scie eurial key f eal fee dditio	ored p and ganisa ortun entific and c eatur edbac n to r	oroble listen ations ities, c and compe c is k dur apid	m- to the s. The etitive ing	
		Level 5													
		Core Underpinning P core knowledge base of of problem solving exe module, which forms the tutorial sessions. Sum exam with a portfolio of	delive ercise he ba mativ	ered t s are isis o re ass	hroug distri f form sessm	h clas buted ative ent ir	ssroo in su asse thes	m ba: upport ssme	sed le t of ea nt an	ecture ach cl d fee	es and lassro dback	d tuto oom-k c in de	rials. based edicat	A set	
Application of Knowledge and Transferable Skills: Two modules are support of the core-underpinning physics modules, based in the practice and the computer laboratory respectively (the latter is replace by a digit processing laboratory of the acoustics strands). <u>Practical Physics Laboratory</u> : In semester 1, students attend laboratory week and are expected to carry out experiments, record data and carry								ical la gital s ry cla	aborat ignal sses	tory every					

		
		the data. A log-book is submitted from each experiment for assessment, in addition to a formal report, in the form of a scientific journal publication for one of the experiments. Verbal feedback is offered in the laboratory sessions, with written feedback being provided in the log-book for each experiment and for draft versions of the report. In semester 2, students work as a group on an open-ended, practically-based project for the whole semester, groups report on a weekly basis to the academic in charge to review the project and update tasks for the coming week. The group makes a formal presentation of the project including a demonstration at the end of the semester. Verbal feedback is offered during the set laboratory sessions to enable students both to gauge their progress and to revise project planning, where necessary. Written feedback is provided for draft versions of the report. Verbal feedback is given for the final project presentation and posters, which are presented at a mock conference at the end of year, building on the formative assessment of presentation skills at level 4. <u>Computing Laboratory</u> : In semester 1, students perform set exercises concerned with computer interfacing and computer control. In semester 2, students perform set exercises concerned with the implementation of numerical methods to solve problems in physics. In both semesters, verbal feedback is given in the computer laboratory for both formative and summative assessment
		Level 6
		Core Underpinning Physics: The teaching in Level 6 has the same structure as level 5, although the material includes more research-oriented aspects. As with level 5, formative assessment and feedback via problem-solving in dedicated tutorial sessions. Summative assessment in these modules is by examination at the end of each semester.
		Application of Knowledge and Transferable Skills: The application of knowledge and transferable skills are developed and assessed through individual research projects. Project work is designed to train the student in guiding their own learning, and the work is carried out by the individual student under the guidance of an individual supervisor. The student is required to meet a variety of deadlines, such as providing an interim report, providing an abstract for the external examiner and submitting the final report. Verbal and written feedback is offered by the project supervisor in via the project review reports and associated meetings, submitted at three-week intervals. More detailed feedback is given for the interim progress report, submitted at the end of semester one with an associated interview at the start of semester 2. Feedback is also offered on draft versions of the final report. Assessment is a combination of project outputs, dissertation, presentation and interview.
		Level 7
		Material in level focusses on more applied aspects of the physics covered in previous years, with an emphasis on practical and computational skills, with a more profound depth of knowledge. Assessment is through a combination exams and coursework associated with computational and practical laboratories. In addition, individual research projects are undertaken, following the same structure as in level 6, but with an additional training on research and presentation skills.
27	Re-assessment strategy	Re-assessments are made available to students after their individual marks have been considered at the appropriate exam board. Requirements for reassessment are then governed by the Academic Regulations for Taught Programmes.
28	Assessed professional experience	The opportunity to undertake an industrial placement is offered to students who successfully complete the level 5 taught modules and provides an opportunity to spend an extended period of time working in industry in a range of physics-based roles. Placement experience varies in length (i.e. between 9 – 15 months) to reflect the needs of the placement providers. During this time students are managed by an industrial supervisor and monitored by a University Placement Tutor. This optional placement offers students the opportunity to gain valuable industrial experience and improves their employability. The placement is assessed via a written report and presentation. The placement is rated at 60 level 5 credits, and is pass/fail hence is zero weighted for calculation of the level 5 mark. Students who pass the placement module and go on to complete their final year will have their professional experience reflected in their degree title.
29	Special features of programme	Students have access to bespoke physics teaching laboratories.

		For students wishing to take an industrial placement, assistance in finding a placement is provided by both School and discipline.
30	Arrangements for student support	International students: Opportunities for international students may be limited as placements must meet the terms of an individual's sponsorship and visa requirements. It should be noted that whilst on placement, international students will need to continue to comply with current United Kingdom Visas and Immigration (UKVI) requirements. The University has a wide range of student support services through Student Life. Services provided by the Library include information literacy, ICT and research skills training, reading list and information resources support for programmes and modules, and a range of student learning spaces. Help and advice is also available from the Academic Support Librarian for the School, and Library enquiry services. Computing support is provided by IT Services (ITS), this includes the ITS Helpdesk and management of the University's Virtual Learning Environment (Blackboard). In line with the University's Code of Practice on Personal Tutoring all students have access to a member of staff who can provide personal guidance and suggest other sources of help.
		Once a placement has been secured, students are required to complete a Pre- Placement Agreement (PPA). This document requires information from the students and the placement provider and approval from the Placement Tutor. Placement Tutors will check to see if expected duties are relevant to the student's course of study. In addition to the PPA, it is the responsibility of the placement provider to supply evidence of third party/employers' liability insurance and a risk assessment to cover activities undertaken.
		Industrial Placement Finding and applying for an industrial placement will in the majority of cases be the responsibility of the student. Provision of a placement is not guaranteed. The Placement Officer will be able to provide information about vacancies and employers that work with the university. In order to be formally recognised by the University, placements need to be approved by the Placement Tutor prior to acceptance by the student. Placements that do not meet the University's requirements will be classed as a gap year.
		facilities as provided by supervisors through the Materials and Physics Research Group. Students on the Physics with Acoustics programme have access to the extensive acoustics research facilities in the Newton Building.
		For laboratory work at level 7 students will have supervised access to electron microscopy facilities and X-Ray analysis as provided by Salford Analytical Services and to bespoke vacuum equipment in the Materials Laboratory. For research project/dissertation work students can have supervised access to research level materials characterisation facilities and high performance computing
		Students have exposure to a diverse range of employers of physics graduates through an external seminar series that is part of the Frontiers of Physics and Entrepreneurial Skills module. Starting in this module and at later points in the programme a focus is placed on associated employability skills.

QEO Office Use O	QEO Office Use Only					
Programme	MP/P/F					
Codes:	MP/P/S					
	MP/PAT/F					
	MP/PAT/S					
	MP/PN/F					
Comments:						