

UNIVERSITY OF STRATHCLYDE

DEPARTMENT OF PHYSICS

HANDBOOK **FOR** **MSc STUDENTS**

Advanced Physics

Applied Physics

Nanoscience

Optical Technologies

Photonics

Quantum Technologies

Dear Students,

I am delighted to welcome you to the University of Strathclyde and to the Department of Physics!

This Handbook is your essential guide to navigating your academic adventure. Inside, you'll discover everything you need to know about our degree modules, degree regulations, key contacts and administrative information. Whenever you need guidance or have questions, remember that our doors are always open. Reach out to your Personal Development Adviser, Adviser of Study, course Lecturer, or any of our friendly staff members. They are here to support you and connect you with the right resources within the University's extensive support network.

We are especially excited to introduce you to our state-of-the-art Teaching Laboratories on Level 4 of the John Anderson Building and can't wait for you to experience the new facilities.

My colleagues and I are eager to share our passion for Physics with you and to welcome you warmly to the Physics Department. Get ready for an inspiring and successful time at Strathclyde!

Wishing you an enjoyable and rewarding academic journey.

Professor Stefan Kuhr
Head of Department

This Handbook should be read in conjunction with the University's guidance that provides extensive general information: <https://www.strath.ac.uk/studywithus/strathlife/>

Important up-to-date Departmental information is available on the [Physics Personal Development](#) page on Myplace.

We believe the information provided is correct at the date of publishing but may be subject to revision. We believe the information provided is correct at date of publishing but may be subject to revision.

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GENERAL INFORMATION

Courses

Advanced Physics

This taught MSc course gives you the opportunity to explore and master theoretical, computational and experimental physics skills with wide applications. Our four divisions – Nanoscience, Optics, Plasmas and the Institute of Photonics – all contribute research-based teaching expertise to the course.

Applied Physics

This taught Masters course is based on the strong research interest in Applied Physics in the Department of Physics. The department has an impressive track record of transferring research into commercial and technological applications and this knowledge will underpin teaching on this course. The course will give participants the opportunity to explore and master a greater breadth of Applied Physics skills and enable them to put this knowledge to use in the context of ongoing research or technological applications.

Nanoscience

This taught MSc course offers a comprehensive overview of the state of the art in Nanoscience research and provides graduates with the opportunity to develop the skills necessary for this emerging interdisciplinary area.

Beginning with an introduction to the basic physics and chemistry of nanostructured materials, the course goes on to explore the nanoworld via the cutting-edge research expertise that has been developed over nearly two decades in the Physics and Chemistry Departments at the University of Strathclyde.

Optical Technologies/Photonics

The course is a taught Masters in the versatile field of optical technologies which underpin many aspects of modern society and are expected to be a key enabling technology of the 21st century. The course is based on the strong record of optical technologies in all research divisions of the Department of Physics and the [Department of Electronic and Electrical Engineering](#). Students can choose taught elements relevant to their career interests from a wide range of topics in photonics, nanosciences, optics at the physics-life sciences interface, information technology and quantum optics. The knowledge gained in the taught components is then put to use in a cutting-edge research project. The course will give the opportunity of exploring and mastering a larger breadth of optical technologies and enable the student to put devices in the context of an optical system and/or application.

Quantum Technologies

This programme provides you with the skills to participate in the second quantum revolution with control of quantum features enabling novel functionalities for industrial products and advanced research. The course is based on the strong research record on quantum physics and quantum technologies in the Department of Physics. Students will develop theoretical and practical skills in fundamentals of quantum physics and their applications to quantum technologies and explore these in more detail in a cutting-edge research project.

The Academic Year 2025 – 2026

Welcome Week & Development Week: **Monday 15 September – Friday 21 September 2025**

Important events, which you must attend during this week, are:

First Day Meeting (welcome + induction) **Monday 15 September 10:00 – 12:30 in JA327**
Welcome and essential information for your study and module choices, followed by social or BYOB lunch.

Personal Development Adviser Meetings **Monday 15 September 14:00 - 14:30 in TBC**

Advisor of Study Meetings **16-19 September, exact timing to be confirmed**

Induction meeting II & Q&A Session **Wednesday 17 September 11:00 - 12:30 in XXXX**
Information not covered on First Day and Q&A session, followed by social or BYOB lunch

In addition, there are plenty of other engagements opportunities, we will be communicating to you separately. In case one of them is overlapping with a scheduled Adviser of Study meeting, you must go to the latter one.

You must make yourself familiar with the provisions of the [IT Services](#) and the [Library](#). For students taking PH949 many aspects are a part of this module but to make best use of the facilities further self-exploration is useful.

Please see below for key dates for Academic Year 2025-26.

Semester 1: 15 September 2025 - 9 January 2026

Event	Dates	Academic year structure*
Welcome and development week	15 September 2025 – 21 September 2025	1 week
Semester 1 Teaching block 1	22 September 2025 - 7 December 2025	11 weeks
University Closed	29 September 2025	
Formal assessment period	8 December 2025 - 19 December 2024	2 weeks
Student holiday: Winter vacation	22 December 2025 - 9 January 2026 (inclusive)	3 weeks
University Closed	23 December 2025 - 4 January 2026 (inclusive)	

Semester 2: 12 January 2026 - 22 May 2026

Event	Dates	Academic year structure*
Consolidation and development week	12 January 2025 - 18 January 2025	1 week
Semester 2 Teaching block 2	19 January 2026 - 5 April 2026	11 weeks
University closed	3 April 2026 and 6 April 2026	
Student holiday: spring vacation	7 April 2026 - 17 April 2026 (inclusive)	2 weeks
Formal assessment period	20 April 2026 - 22 May 2026	5 weeks
University closed	4 May 2026	

Other key dates: 25 May 2026 - 11 September 2026

Event	Dates	Academic year structure*
University closed	25 May 2026	
Project PH952	20 May 2026 – 28 August 2026	Project assessment should be finished on 30 August but note that depending on staff availability or personal circumstances requiring extension, project assessment might take place later
University closed	17 July 2026 and 20 July 2026	
Resit examination diet	26 July 2026 to 11 August 2026	

Please note: this information may be subject to change.

*This represents the University's standard academic year structure as outlined in the [Policy on the Academic Year and Teaching Calendar](#). Senate has overall responsibility for determining the shape of the standard academic year.

Exam Information and Dates can be found on the [Examinations web page](#).

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Staff will notify you about the hand in dates as the modules progress and will be published on each class page on MyPlace.

These dates are correct at the time of publishing but you are strongly advised to check: [Key dates for academic sessions 2025-26](#) regularly for any changes.

Refer to appendix 4 for important assessment scheduling and key dates for the summer project.

Advisers of Study

Each MSc student in the Department is assigned an Adviser of Study who is responsible for advising the students about their current curriculum. Students will meet with their Adviser of Study at the appropriate year group First Day Meeting. The MSc degrees are coordinated by Prof T. Ackemann who serves also as adviser for every programme.

The Programme Adviser for all MSc Programmes is:

Prof John Geddes

Office: TBC

Email: physics-pgt-coordinator@strath.ac.uk

Deputy Advisers are:

Prof Thorsten Ackemann

Office: JA8.21

Email: physics-pgt-coordinator@strath.ac.uk

Ms Gabrielle Weir

Office: JA8.05

Email: physics-pgt-coordinator@strath.ac.uk

Faculty of Science

The Faculty of Science includes the Departments of Physics, Mathematics and Statistics, Computer and Information Science, Pure and Applied Chemistry as well as the Strathclyde Institute of Pharmacy and Biomedical Sciences which comprises the bioscience departments. The Faculty, one of four in the University, has administrative and financial powers devolved to it by the University.

The current [Faculty Leadership Team](#) are:

Associate Principal & Executive Dean: [Professor Duncan Graham](#)

Vice Dean (Academic) [Dr Lorraine Gibson](#)

Faculty Manager: [Robert Lawrie](#)

Deputy Faculty Manager: [Christine Dowds](#)

Faculty Officer (Academic Quality & Research): [Craig McMurray](#)

Enquiries to Faculty staff can be emailed to science-enquiries@strath.ac.uk

The Physics Department

The Department is housed in the [John Anderson \(JA\) building](#). The John Anderson Building is open Monday to Friday from 8.00 am to 6.00 pm.

The Department has over 50 academic staff. The Head of Department is Professor Stefan Kuhr (JA 8.02). Information on the Department and its staff can be found on the Department's [website](#)

Key staff are:

Head of Department: [Professor Stefan Kuhr](#)

Assistant Head of Department: [Professor Rob Martin](#)

Director of Teaching: [Professor John Jeffers](#)

Deputy Director of Teaching [Dr Alison Yao](#)

Deputy Director of Teaching - PGT [Professor Thorsten Ackemann](#)

Director of Student Support [Dr Fabien Massabuau](#)

Postgraduate Research Tutor [Dr Gordon Robb](#)

Director of Research: [Professor Jonathan Pritchard](#)

Should you need to contact a member of staff, contact details can also be found on the [Department website](#). Alternatively, messages for staff may be left with staff in the Student Enquiry Office JA8.31 on the 8th floor of the John Anderson Building. Photographs of all the staff are displayed on the 8th floor of the John Anderson Building outside JA 8.03.

It is essential that you check both your university email account and any class announcements made through the University Virtual Learning Environment - MyPlace on a regular basis.

Note that the notices in the Strathclyde App include only the messages from the University VLE MyPlace and NOT any emails an academic might send you directly.

The Department makes available JA 8.18 (The Bob Illingworth Room) as a Student Reading Room. You are asked to cooperate by not using 8.18 for conversing, eating or drinking. This room is for students of all years and of all courses. (Please treat it with care or the facilities will be withdrawn).

There is also a Student Common Room located in the [Graham Hills Building](#) GH5.65.

General Information

ADVICE FOR STUDENTS REQUIRING DISABILITY SUPPORT

Students with disabilities

The University is committed to providing an inclusive learning and working environment for disabled people. If you have, or think you have, a disability we encourage you to disclose it as soon as possible. Declaring your disability will enable you to access any additional support that you may need and help to ensure you become a successful student. The information you provide will be treated as confidential and will not be shared with other staff without your consent. Note that this does not only refer to physical disabilities but also to mental health issues.

The University has a dedicated Disability & Wellbeing Service that offers specific advice, information and assistance to disabled students, including information on the Disabled Students Allowance (DSA). Further information is available from the [Disability & Wellbeing Service](#) website.

The Physics Departmental Disability Contacts (DDCs) are Dr Ben Hourahine and Ms Jacqui Gordon (physics-ddc@strath.ac.uk).

Please inform the DDCs and a member of the Disability Service of your needs as soon as possible. The Disability & Wellbeing Service will then formally communicate your needs to your Department/School.

Only students who have submitted all their referral paperwork and supporting evidence to the Disability & Wellbeing Service will be guaranteed to be considered for exam adjustments for the first exam diet in early December. **Students should submit evidence relating to a disability as soon as possible.**

Email: disability-wellbeing@strath.ac.uk

Telephone: 0141 548 3402

Location: Disability & Wellbeing Service,
Rm 467, Mary Dunn Wing,
Learning & Teaching Building

Issues with Physical Access on campus

If you experience an issue with physical access anywhere on campus, please email: physicalaccess@strath.ac.uk where a member of Estates staff will be able to help.

IF YOU HAVE ADDITIONAL SUPPORT NEEDS YOU MUST NOTIFY THE DISABILITY SERVICE AS SOON AS POSSIBLE SO THAT THE NECESSARY ADJUSTMENTS CAN BE PUT IN PLACE.

To ensure the Department meets your needs as defined by the Disability & Wellbeing Service, The Department Disability Contacts can be reached at physics-ddc@strath.ac.uk. Should you have any questions then please do not hesitate to use this email address as first point of contact and we will try our best to help or direct you to further support.

In addition to the Disability & Wellbeing Service the University offers a range of additional support services. Details of these various services can be found at [Student Advice and Support](#)

Absence & Personal Circumstances

If you are absent from the University for up to 7 days you should record a self-certification online via PEGASUS using the Personal Circumstances link under the Services tab. Where illness results in absence of more than 7 days, or has prevented you from completing an assessment, you must also submit a medical certificate to **Student Business team**: studentbusiness-science@strath.ac.uk

If you have health or other personal circumstances affecting or having affected your studies, please let us know as soon as possible and do not wait until you have had the mark. For personal circumstances affecting exams or other significant pieces of assessment appropriate evidence (e.g. medical certificate) is required. This should be timely, typically within five days of an exam, if possible, but on the working day before the meeting of the Board of Examiners at latest. If you need an extension for a piece of continuous assessment, request this **before** the deadline from the lecturer via the functionality in MyPlace.

For international students in the UK, the medical certificate must be from a British based doctor. Please register with a GP as soon as you arrive so that you can access the service in case you need it.

Full details of the University policies on Personal Circumstances and what you should do in each circumstance can be found at: [Voluntary Suspension](#), [Personal Circumstances](#) and on the [Strathlife](#) pages.

Moving Home

It is important to keep Student Business informed of **any change in your address** or else important information (like examination and graduation information) might go astray. Changes of address may be updated through the University's Information Server PEGASUS. You can update your personal details on PEGASUS under the 'Personal' tab, in 'Maintain Personal Details'.

Difficulties

If you find yourself with a problem or in difficulty the University has people and procedures in place to help (please refer to the University Handbook for contact details of all the main University services) but within the department, help is also available, thus you can go and see your PDA or PGT Coordinator in the first instance. Do not delay getting help as often the problems are much reduced if tackled early enough. If they cannot help themselves, they will often know of others who can help.

Classroom Protocol

At the University we are committed to providing a safe learning environment where dignity is respected and discrimination or harassment does not occur on the basis of age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race, religion or belief, sex, sexual orientation and socio-economic background. No student should intentionally be made to feel threatened or excluded from class participation.

You are reminded of your responsibility for the duration of your studies by showing respect to fellow classmates and staff by remembering the following protocol:

- Attend all scheduled lectures/ seminars and/ or practical sessions such as labs, including any additional learning and teaching sessions.
- Arrive on time and remain in class until the end of the session. If you need to leave early for any reason, please notify the tutor at the beginning or prior to the class.
- Do not disrupt the class by habitually coming in late or coming and going from the classroom during the session. Students arriving late, without justified reasons, may be refused entry.
- Refrain from consistently interrupting another speaker and listen to the ideas of others with respect. Do not be rude or make personal attacks on individuals during group discussions.
- Inform and establish consent of the tutor if you wish to record the lecture. The recording must be used only for personal study.
- Do not bring food into the classroom, other than for medical reasons, e.g. diabetes. Beverages may be permissible at the tutor's discretion if the room utilisation rules allow.
- Inform tutors of specific requirements for example the need to perform prayers for practising students of diverse faiths.
- Seek consent of students and staff before taking any photos in the classroom.
- At any course related external visit you are acting as ambassadors of the University and are reminded to act as such.
- Refrain from smoking on premises as this is prohibited in all University buildings.
- Follow emergency instructions and health and safety procedures.
- Follow all instructions and guidance relating to Covid control measures in place. This is important to protect your health and the health of others. Please find the University guidance [here](#).

Should you have any concerns please bring them to the attention of your tutor and/ or appropriate University staff.

Equality and Diversity

The University of Strathclyde is committed to achieving and promoting equality of opportunity in the learning, teaching, research and working environments. We value the diversity of our students and support the development of mutual respect and positive relations between people.

The University has in place Equality Outcomes which meet the requirements the Equality Act 2010. You are advised to familiarise yourself with the University approach on equality and diversity and relevant developments and information by visiting Strathclyde's [Equality and Diversity website](#). If you have any questions, please bring these to the attention of staff or the University's Equality and Diversity office.

Email: equality@strath.ac.uk

Telephone: 0141 548 2811

Women in Strathclyde Physics Association (WiSPA)

The Department has a group which aims to provide a private forum for any woman in Physics at Strathclyde to be able to discuss any issues or problems they may encounter working or studying in a predominantly male environment. In particular, the group can provide confidential advice and support to anyone who feels they need it and hopefully encourage more women to continue on STEM career paths. This group is for anyone within the Department identifying as female. We would love you to join our group – if you are interested, please click on '+ Join group' via this link <https://www.facebook.com/groups/164364574339494/>

Dignity and Respect

The University of Strathclyde acknowledges that students and staff bring different cultures, lifestyles, experience, ideas and knowledge to the learning, research and working environment.

We are committed to providing an environment where students, staff, visitors and contractors are treated with dignity and respect. Unacceptable behaviour has no place at the University. Any form of discrimination, harassment, victimisation or bullying will not be tolerated.

To emphasise this commitment, we have developed policy on Dignity and Respect and a network of Dignity and Respect Advisers. Any person experiencing bullying or harassment can contact an adviser for confidential advice and support. In order to avoid any conflict of interest you are advised to contact an adviser external to your local area.

Please see [Dignity and Respect](#) for more information.

[Report & Support](#): You may also report online any inappropriate behaviour (such as verbal or physical harassment, or other actions that make you feel unsafe, for example threatening posters, stickers or graffiti) so the University can provide you with appropriate support.

Students may also contact [University Counselling Service](#)

It is the responsibility of all students, staff, visitors and contractors to conduct and interact in a fair and respectful manner at all times.

We can all make a difference through leading by example, contributing ideas and suggestions.

Student Discipline Procedure

Students are made aware of the University [Student Discipline Procedures](#)

SAFETY REGULATIONS

These apply to all parts of the University. Your attention will be drawn to these when they affect you. Particular care needs to be exercised in laboratories, and in general, you are not allowed to work in a laboratory unsupervised. For this reason, it is not usually possible to make up time lost for any reason during a laboratory session by putting in extra time later. The Department's general safety advice is listed further on in this handbook, see page **20**. You are requested to attend a compulsory safety induction which is scheduled for Wednesday 17 September 2025, 10.00-11.00 and the laser safety sessions in October 2025 to be announced.

YOUR DEGREE PROGRAMME

Programme Requirements

Each degree programme is made up of a number of modules. A full year's curriculum normally totals a minimum of 180 credits, of which 120 credits are taught and 60 credits are associated with the project. The classes you choose must be agreed with your Adviser of Study (see above) and then you will be able to complete your registration with the University. The details of the modules you will take or you will be able to choose are given in Appendix 2.

Further information about all the modules offered this Department can be found at the [Optional Classes](#) webpage.

Each degree course is governed by a set of Regulations that specify the compulsory classes you must follow for that degree course as well as the progress requirements to move from one year to the next year of a given degree course. These are detailed in Appendix 1. If there are any

changes to these regulations, the department will always use the version of the regulations that is in the best interest of the students.

In addition to the degree specific Regulations you are bound by a set of general regulations and these can be found at [University Academic Regulations](#)

Further information and policies are accessible via the [Academic policies & procedures](#) page.

Timetables

The timetables for each degree course will be available on the University website at the start of each semester see <https://www.strath.ac.uk/studywithus/studenttimetablingstudyspaces/>

PLEASE NOTE THAT AT THE START OF EACH SEMESTER, ROOMS ARE SUBJECT TO CHANGE AND YOU SHOULD CHECK THE TIMETABLE FREQUENTLY.

Personal Development Advisers (PDA)

As well as a Year Coordinator, you will also be assigned to a member of academic staff who will act as your Personal Development Adviser (PDA). The role of the PDA is to encourage you to reflect on your study in Physics and help you develop to be a Physicist who is enquiring, engaged, enterprising and ethical, all the attributes necessary for a graduate fit for the 21st Century. Should any problems arise during your study, your PDA will be able to direct you to the relevant support staff within the University. If you have any problems, then please inform the Department so that we can put measures in place to help you. If you have any problem contacting your PDA, please discuss with your year advisor.

Teaching

The teaching offered by the Department is primarily done via lectures and these are supported by tutorials and lab-based modules. **There is a strong correlation between performance and attendance.** The Department will be monitoring attendance at lectures and tutorials and poor attendance, without a valid reason, may result in you being unable to sit any examinations.

Student-Staff Committee

The Department has a Student-Staff Committee (convened by a student and supported by the Director of Teaching) that is made up of student representatives from each year and a number of academic staff. Students are invited to choose their own representative in the first two weeks of the first term. The Committee has an important role, resolving difficulties that may arise.

The Student Staff Committee will meet in both 1st and 2nd semesters in weeks 4 and 8.

Please visit the [MyPlace page](#) for more details.

Becoming a Student Rep: Student representation is an important part of your time at the University of Strathclyde. [StrathReps](#) at all levels will help represent yourself and other students voice to the relevant University staff.

[The Strath Union](#) offers training on how to be an effective representative. The Committee considers anything that affects the teaching of the courses or Student-Staff relations. Problems that are personal to you should be raised with your PDA or Adviser of Study. Matters affecting a group of students should be raised in the first instance with any staff member directly involved, but if this fails to resolve the matter, or if it raises wider issues, then ask your Student-Staff Committee Representative to raise it at their next meeting.

Report Writing

A key skill for any physicist is to communicate the outcomes of an investigation to a wider audience. During your course you will be expected to write formal reports and essays in a number of courses, in particular the project report (PH952). The Department will give you the necessary training on how to write reports and this will include advice on the structure and content of the report, how to reference and how to avoid plagiarism, the unaccredited use of another person's work.

The Department will use the anti-plagiarism software [Turnitin](#) to check for plagiarism.

BY SUBMITTING ANY WORK THROUGH TURNITIN, YOU ARE ACKNOWLEDGING THAT YOU ARE THE AUTHOR OF THE WORK.

Commercialisation of Research, Intellectual Property and Student Projects

If you are assigned to a project which is conducted within the University and that may lead to outputs which can be patented or which will create a commercial opportunity, you will be asked to sign a contract which assigns commercially exploitable intellectual property rights to the University. Further details can be found on MyPlace. Projects conducted within industry will have separate arrangements.

Academic Misconduct

Academic Misconduct are all behaviours giving an unfair advantage, including but not limited to plagiarism, collusion, falsifying results, using ghost-writing and the unauthorized use of generative AI tools. Further examples and guidance on academic integrity can be found [here](#) and in the [Student Discipline Procedures](#). Particularly important is the avoidance of plagiarism. It involves the passing off of another person's work as your own, i.e. copying of another person's work, be it a figure, text, experimental data or homework for example and not acknowledging the source of the work. Plagiarism can be avoided by suitable referencing. The department will make extensive use of software capable of detecting plagiarism, in this case [Turnitin](#) to check for plagiarism. You can use artificial intelligence tools (e.g. ChatGPT) in a similar way like conventional search engines and data bases for searching for literature and clarifying concepts but not for generating outputs for assignments. Any use of generative AI in assessments must be authorized by the lecturer. If you are unsure of any aspect of potential academic misconduct in your assignments, please contact your lecturer.

Any instance of suspected academic misconduct will be investigated and the student may be reported to the University Disciplinary committee.

Feedback

Feedback is an essential part of your learning and it is important that you act on the feedback given. This feedback can come in a variety of ways – as simple grades, written solutions to tutorial problems, online feedback, guidance on how to improve your lab reports or project reports, discussions in lectures.

The Department follows the Faculty of Science policy on feedback in that if a type of feedback is to be provided on a piece of work it will be given within 15 working days of the hand in date. If a member of staff cannot meet this deadline then (s)he will let you know.

Further details are available at [Academic Policies & Procedures](#) and the University's [Assessment and Feedback Policy](#)

Information Technology, Personal Transferable Skills, Pegasus and MyPlace.

Expertise in *information technology* (IT) and well developed *personal transferable skills* are essential if you are to maximise your performance in the academic work of your chosen course. Essays, laboratory and project reports, for example, must normally be word processed while the ability to analyse and plot experimental data using available software packages is essential for progress in scientific research. Familiarity with IT also allows you to search the internet and electronic databases for reference material to assist in the writing of assignments and dissertations.

We expect numeracy in IT and personal skills at PGT level, but these skills are continuously trained in all courses, in particular in PH949.

See appendix 5 for further support.

CYBER SECURITY

The University's online cyber security training highlights current threats and provides practical guidance on how to stay safe online. The module has been developed specifically for Higher Education.

All students are expected to complete the training (for students taking PH949 it is part of the course). It should take no longer than an hour to complete can be undertaken in short sections. Please access the course using the link below:

[Cyber Security Training for Students](#)

PEGASUS and MYPLACE

The University has developed its own information server known as PEGASUS that is used to provide services to both staff and students. Please refer to [Strathlife](#) for further information. In addition to PEGASUS, the University has a VLE (Virtual Learning Environment) called MYPLACE, and this is used to provide copies of lecture notes, assignments, tutorial questions etc., as well as providing discussion forums for students. As with PEGASUS you will receive training on the use of MYPLACE in the first weeks of your course and information relating to MYPLACE can be downloaded from: <https://modules.myplace.strath.ac.uk/>

SUPPORT

Material for support is available on MyPlace "[Physics Personal Development](#)" and in Appendix 5 and will be discussed further during the induction session. Further useful guidance on academic writing is on the [Project MyPlace site](#).

The department organizes a session bringing all PGT students together as part of PH952 and PH949. One main aim is that you get to know the department. The leaders or representatives of the research groups will present their groups, which is important to inform your project choice. There will be also some additional skills training. Afterwards, we would like to hear from you the challenges you encountered and discuss possible strategies and possibly solutions found by other students already. This can range from learning to exchanging tips on everyday life like flats, shopping, bank account... We hope that this helps you to form social and learning networks within your cohort and keeps you informed on what is going on.

Departmental Research Colloquia

For interested students, the departmental research colloquia provide excellent means to get an idea of modern research. External speakers are talking on cutting-edge research on a tutorial level. The schedule is available on [John Anderson Research Colloquia](#)

ACADEMIC

Attendance (or participation for online sessions)

ATTENDANCE AT TUTORIALS AND LABORATORY SESSIONS IS MANDATORY AND THE DEPARTMENT WILL BE MONITORING ATTENDANCE AT PHYSICS LECTURES. POOR ATTENDANCE AT THE TUTORIALS FOR A GIVEN CLASS WILL RESULT IN YOU BEING MARKED AS “NOT QUALIFIED (NQ)” TO SIT THE EXAMINATION FOR THAT CLASS. FAILURE TO MAINTAIN A HIGH LEVEL OF ATTENDANCE MAY RESULT IN TERMINATION OF YOUR REGISTRATION.

There are a variety of policies that guide student life at Strathclyde these can be found at:

[Policies & Procedures for students](#)

[Personal Circumstances Procedure](#)

[Academic Integrity Guidance](#)

[Absence and Voluntary Suspension](#)

[Extensions to Coursework Submission](#)

[Late Submission of Coursework](#)

[Complaints Procedure](#)

Assessment and Progress

There are a variety of methods by which modules are examined and the lecturer at the start of a class should give the relevant details. The MSc classes are defined to be at Scottish Higher Education Level 5 (Scottish Credits and Qualification Framework level 11). Each MSc class has a defined credit weighting and a single credit corresponds to ten hours of student learning. This learning includes all activities associated with the class from attending lectures, through to sitting the examination as well as private study. To be awarded the credit for a class you must achieve the pass mark for the class, which, in the case of Level 5 classes, is 50%. Note that the credits associated with a class are indivisible. You cannot be awarded a fraction of its credits for meeting part of its requirements. You can take up to one level 4 module, if compatible with your degree regulations. The pass level of these is 40%.

The most common assessment method is by examination. The conduct of examinations is covered by University regulations including:

1. You need to produce your student identity card at exams.
2. You are forbidden to have with you in the exam room notes of any sort unless the exam instructions explicitly permit them. [Possession of such notes in the exam room is an offence, irrespective of whether use is made of them.]

In *Physics* examinations, you cannot take into any examination graphic calculators with memory bank facilities, and in particular, no calculator with alphabetic input. For assessment of the project refer to Appendix 4.

Prizes

The Department of Physics MSc Excellence Prize will be awarded to a meritorious student of at least distinction level on any MSc course offered by the Department. The prize, worth £50, will be awarded to the student who achieves the highest credit weighted average over the whole course portfolio.

The Department of Physics MSc Prize will be awarded to a meritorious student of at least distinction level on any MSc course offered by the Department. The prize, worth £50, will be awarded to the student who achieves the highest mark for the MSc Project.

Examination Attempts

All students will be entitled to TWO attempts only to gain the credits for any class. The First Attempt is taken in either the January or the May Diet of Examinations and the Second Attempt taken in the August re-sit Diet of Examinations. It is the lecturer's responsibility to outline the assessment procedure for the class at the start of the course. **It is important to note that all credit-weighted average calculations are made using the first attempt mark.**

Degree Award Credit Requirements and Classification

Degree Type	Credit Requirements
PG Certificate	To be awarded a PG Certificate you must have accumulated at least 60 credits of which at least 50 credits must be Level 5.
PG Diploma	To be awarded a PG Diploma you must have accumulated at least 120 credits of which at least 100 credits must be Level 5.
MSc degree	To be awarded an MSc degree you must have accumulated at least 180 credits of which at least 150 credits must be Level 5.

The MSc degrees are classified in three bands and the classification is determined by your credit-weighted average mark.

MSc Degree Classification	Credit Weighted Average Mark
Distinction	≥ 70 %
Merit	≥ 60 %
Pass	≥ 50 %

For full time students the credit-weighted average is based only on the classes you have taken in the current year of study and is calculated by

$$CWA = \frac{\sum_i c_i m_i}{\sum_i c_i}$$

where c_i is the credit value of the class, m_i is the percentage mark gained in the class. The credit-weighted average is based on the **first attempt mark** for a class.

Examination Board Decisions

For all Strathclyde students (including Physics) at level 1-5, all marks visible on Pegasus are unapproved (i.e. provisional) until approved at the May-June exam boards. Part of the reason for this, is that in rare cases assessment scaling might be appropriate for any module yielding marks that are significantly out of line with the credit-weighted averages of the students over the full year's curriculum. This prevents unfairness across the cohort due to a student's individual module choice. In most instances scaling raises module marks – but it can work both ways.

Modules requiring scaling twice in a two-year period will be deemed poorly assessed and require significant revision of the assessment structure.

Whichever method of assessment is used an Examination Board will consider the results of your examinations. There will be a First Board that meets in June to determine whether you are eligible to progress to the Project phase of the MSc and a Second Board that will meet in September to determine whether you qualify for the award of an MSc and the level of that award. There are certain decisions that the First Board and Second Board can make:

PROCEED

This means that you have passed in all the taught classes for which you were registered and you may progress to the project phase of the MSc. **This decision is based on the first attempt only. You need to pass 100 of 120 credits at first attempt to be allowed to proceed to project.**

TRANSFER

The student will be transferred to another degree, diploma or certificate course in the same group of courses. This can be qualified by a decision of, for example, **TRANSFER and RESIT** etc.

RESIT (normally 1st board only)

The student should take re-sit examinations or other appropriate forms of re-assessment, and the student performance will be reconsidered at the next Board of Examiners. A resit in second attempt is assessed by the exam only. A resit in 1st attempt after a discount of the previous attempt is assessed by exam and continuous assessment, where applicable and not discounted. A resit in 2nd attempt gives you only the missing credits. The mark of your first attempt continues to count towards your average. **Note, due to the difference between 1st and 2nd (or later) attempts, you cannot just decide to go for the resit instead of the 1st attempt, e.g. to be able to concentrate on fewer exams, but you must sit exams/assessments or provide valid circumstances.**

WITHDRAW

A student whose performance is considered to be so bad that none of the above alternative decisions would be appropriate will be required by the Examination Board to withdraw from his or her present degree course.

AWARD (2nd board only)

The student has satisfied the regulations for the award of the degree, diploma or certificate for which they are registered.

You may also have the following comments next to individual class marks

PASS BY COMPENSATION

The University Compensation Scheme has been applied to this class. Your overall level of performance is such that you have been awarded the credit for the class even though the mark that you have achieved for the class is less than the standard pass mark (50 %).

ATTEMPT DISCOUNTED

The Examination Board recognises that factors, such as ill health, family circumstances or adverse weather may have affected your performance in the class. The mark you achieve for the class is discarded and the next attempt at the class is regarded as the first* attempt. (*If the mark discounted is a re-sit the attempt will be regarded as the same number as the re-sit attempt e.g. 2nd, 3rd or 4th attempt.)

MINIMUM CREDIT REQUIREMENTS FOR MSc PROGRESSION

CREDIT TOTAL	June Decision
X = 120	Proceed
$100 \leq X < 120$	Proceed
$X < 100$	Transfer PG Diploma and Resit
$0 \leq x < 60$	Transfer PG Certificate and Resit

CREDIT TOTAL	September Decision
X = 180	Award MSc

CREDIT TOTAL	September Decision
$120 \leq X < 180$	Award PG Diploma
$60 \leq X < 120$	Transfer PG Certificate and Award
$0 \leq x < 60$	Withdraw

COMPENSATION SCHEME

The Faculty operates a PGT Compensation Scheme for candidates registered for Postgraduate Diploma or MSc courses. Provided a student has achieved a Credit Weighted Average mark (CWA) over 1st attempts of at least **55%** across the taught curriculum, normally 120 credits excluding the project dissertation, then modules amounting to no more than 20 credits where mark(s) of 40 – 49% have been achieved will be awarded compensatory passes. The compensation scheme shall be applied only at the first Exam Board that considers the students' performance across the whole of the taught curriculum. It is not used at later Boards unless first attempts are being considered because of personal circumstances.

External Examiners

Whichever method of assessment is used to assess a class the mark for that class is approved by an Examination Board. The Departmental Examination Board comprises all members of Staff in the Physics Department plus representatives from the Chemistry Department. In addition to these an External Examiners sits on the Examination Board and their role is to ensure that the Department has operated in a fair and equitable manner when setting and assessing exam papers and course work. This year the External Examiner is:

Dr Graeme Whyte
Associate Professor Heriot Watt University, Edinburgh

Dates of examination Boards

1st Board (progress board):

Pre-board and main board end of May/beginning of June TBC

2nd Board (award board):

Pre-board and main board beginning of September TBC

Information on potentially mitigating personal circumstances must reach the examination boards on the working day before the board as the very latest to be considered.

Appeals

Students have the right to appeal against the decisions of the Exam Boards, and information will be provided in their results letter on Pegasus. The policy on academic appeals can be found at:

[Personal Circumstances & Academic Appeals](#)
[Overview of Appeals](#)

Postgraduate Taught Experience Survey (PTES)

The PTES is an annual survey, devised to find out about the experience of postgraduates on taught courses. Please check your Strathclyde email address for your unique link to access the survey - these will be sent out regularly in spring until the survey closes!

Further information is under [Postgraduate Taught Experience Survey \(PTES\)](#)

Graduation

What is Graduation?

The University holds Degree Congregations each year at which students graduate with degrees of the University. Until you have graduated, in person or "in absentia", you are not entitled to call yourself a graduate. For consideration for many types of employment, it is necessary to be able to show your degree certificate, presented to you at Graduation.

When are the Degree Congregations?

November in the Barony Hall. The dates and times for your degree ceremony will be announced in March.

Registration for Graduation

Who should register to Graduate?

All students hoping to graduate should enrol to graduate using our graduation portal. Registration is essential even if you want to graduate "in absentia" (i.e. the degree is conferred in your absence).

When do I need to register?

As soon as the [Graduation website](#) indicates the relevant dates. Do not wait until you have sat your examinations or until your award is approved - that will be too late.

What are the fees?

There is no fee to graduate either in absentia or in attendance at a ceremony. However, you **MUST** enrol to graduate so that your certificate can be prepared for you. The hire charges for the appropriate hood and gown are about £45.

How do I graduate "in absentia"?

Your degree will be conferred "in absentia" if you wish (tick the appropriate box on the form). Your award parchment will be posted by standard mail to the address you provide on the enrolment after the graduation date in November. UK address delivery is normally within five working days and for non-UK addresses we recommend allowing up to 20 working days from date of postage.

What happens if I do not qualify in time for graduation?

If you have registered to graduate in November but you do not qualify for the degree in time, Registry will assume that you will graduate "in absentia" at the next July ceremony.

Debtors

If you owe the University money for any reason (fees, rent, library fines) you will not be permitted to graduate. You should clear any debts with Finance Office or the Library immediately.

Graduation Day

If you have registered to graduate by the appropriate date and have qualified for the award of the degree, Registry will send you information in the week before Graduation. This will include tickets for two guests to attend the ceremony.

What do I wear?

All students attending a graduation ceremony must wear academic dress. Please contact [Ede & Ravenscroft](#) to book your gown. Make sure you hire your gown as soon as possible after you have confirmed your attendance at your specific ceremony date and time.

Graduation ceremonies are a formal, ceremonial occasion and you should therefore wear appropriate smart, formal clothing like:

- dark suit
- dark jacket & trousers, with a white shirt
- dark skirt or trousers with a white blouse, or white or dark dress
- recognised national dress e.g. kilts

Contact Details for Graduation

Awards & Graduations: graduation-enquiries@strath.ac.uk

Help with student or guest accessibility arrangements graduations-support@strath.ac.uk

Student Business: studentbusiness-science@strath.ac.uk

Finance Office: finance-helpdesk@strath.ac.uk

Library: help@strath.ac.uk

[Ede & Ravenscroft Gowns / Photography](#) (search institution 'University of Strathclyde')

Careers Guidance

Have You Thought About Your Future?

Careers isn't just about getting a job after you graduate. Take a look at the opportunities while at university, to volunteer, gain work experience; develop your skills, and much more besides at <https://www.strath.ac.uk/professionalservices/careers/workexp/> Think about all the activities on your course, within the university and beyond that will allow you to explore the options open to you.

Knowing where to start can be difficult. Therefore, it is a good idea to look at the planning your career section of the [Careers and Employability Service website](#) you can revisit this throughout your time at university as your ideas change and evolve.

To view the vacancies for part time, internships and graduate jobs register at [MyCareerHub Strathclyde](#) - you can even set up job alerts so that we tell you when jobs are added.

Surveys have shown that Strathclyde University's graduates are more likely than most graduates from elsewhere to find a job quickly. Nevertheless, the job situation remains difficult nationwide and it is important to think through what career you might follow well before you graduate. Apart from the benefits of being early in the race for the better jobs, the realism produced by knowing the job market usually helps motivate your study.

During your MSc year you will need to balance the academic demands of your course with the final stages of career planning and job search. Decisions will need to be made at various stages of your final year and the timing of these will vary depending on your career focus. Some opportunities have closing dates very early in the academic year, even before Christmas.

You can continue to refine your career focus and embark on the job/postgraduate search process using the resources of the Careers Service.

YOUR CAREERS SERVICE, YOUR FUTURE

We offer plenty of support, for example:

- **Quick Queries** with a Careers Consultant can be booked online in advance - <https://www.strath.ac.uk/professionalservices/careers/appointments/>

- **Guidance Appointments** with a Careers Consultant can be booked by emailing yourcareer@strath.ac.uk.
- **CV360** – Get instant detailed feedback on your CV using our CV360 tool before booking a CV Check. CV360 is accessible through our Online Careers Toolkit. How? Quick link via home page
- **CV Checks** (which includes applications and LinkedIn reviews) with a CV Adviser can be booked online 48 hours in advance - <https://www.strath.ac.uk/professionalservices/careers/students/makingapplications/cvsandcoverletters/>
- **Online Interview Simulator** (soon to be rebranded to Interview360) – to practice your virtual interview skills. Accessible through our Online Careers Toolkit. How? Quick link via home page
- **Practice Interviews** – These can be booked by emailing yourcareer@strath.ac.uk.
- Our website has extensive **occupational, postgraduate and employer information** to inform your career research as well as resources on making applications
- We also recommend the graduate careers website, **Prospects**, where you can use Career Planner to see what options might suit you <https://www.prospects.ac.uk/planner>.
- We also recommend the website **Gradcracker** (<https://www.gradcracker.com/>) which is the UK Career website for STEM students to search for work placements, internships and graduate jobs.
- Attend the virtual **Scottish Graduate Fair on 1st and 2nd October 2025**. To pre-register and view the list of exhibitors go to <https://www.strath.ac.uk/professionalservices/careers/sqf/>
- Finally, don't forget to check our Vacancy portal and Events calendar regularly!

Careers Service staff are happy to help you at whatever stage of the career planning job search process you have reached. They also offer a service to our graduates, which is accessible for five years, so if you need help beyond your degree, keep in touch.

Stephen Smith is the Careers Consultant to the Faculty of Science. You will get to know him through Careers talks during the year in the Department and through events, and activities, that we encourage you to attend from 1st year.

KEY INFORMATION

1. Check the Vacancy portal to access paid work experience (Summer/1 year), graduate opportunities. How? Quick link via home page
2. Check our EVENTS calendar regularly for employer-led information/skills sessions, Careers Service briefing sessions/events. How? Quick link via home page/University app
3. Book online to have your CV/application/covering letter/personal statement etc checked. How? More information/book via quick link
4. Got a question? **Contact Careers at:** yourcareer@strath.ac.uk
[Our location](#)
 Level 4, Jocelyn Bell-Burnell Wing
 Office hours: Monday to Friday Online and by phone 9am to 5pm
 In person 10am to 4pm
 Tel: 0141 574 5090

QUICK GUIDE TO KEY RESOURCES ON THE CAREERS SERVICE WEBSITE

Choosing your career

- Choosing your career: an interactive online course and other resources

Occupational resources

- Sector information/job search resources/professional bodies/case studies

Work experience and internships

- Types of work experience/advice on working during studies/job search tips

Making applications

- Advice about: CVs/covering letters/application forms/personal statements/LinkedIn profile

Psychometric tests

- What they are/how to prepare/online practice tests/practice tests in Careers Service/brush up your numeracy skills

Assessment Centres

- What they are/typical exercises & activities/how to prepare/how you are assessed

Interviews

- How to prepare (checklist)/strengths-based interviews/video interviews/telephone interviews/interview practice/additional resources

Postgraduate study and research

- Useful resources/course search/study abroad/funding

Careers Service Global

- Increasingly employers want graduates to have a 'global mindset', which means understanding different cultures and how industries work across borders.
- Work and study options/international job search/advice for international students

Postgraduate Career Module

- This module was created by the Careers Service to support the career development of postgraduate taught students at University of Strathclyde

SAFETY NOTES

Safety is YOUR business and responsibility at all times. These notes supplement the Department's Safety Regulations and should be read carefully. Specialised training might be required and it is mandatory to make yourself familiar with and to sign any local rules, risk assessments and methods of work for your specific experiment.

Potential hazards in physics laboratories include fire, electrical, materials and chemicals, machinery, gas cylinders, "common" accidents, ionizing radiation, laser UV, and microwave radiation.

Fire

Be aware of the quickest fire escape routes from the areas that you are in. If the fire alarm sounds (continuous tone) make your way, immediately, to the nearest exit. Do not let waste paper accumulate. Do not leave gas burners on unattended. Electrical equipment, especially older power supplies can go on fire if short circuited and wrongly fused. Rotary pump motors can seize (i.e. jam) and go on fire if not properly protected. In general switch off unattended equipment unless there is a good reason for leaving it on. Know where the fire exits are.

Electrical

Current through heart stops operation of heart. Use safety equipment (see below). When adjusting equipment keep one hand away from equipment and away from any earthed conductor. This reduces current through heart from two-handed contact from 'live' to 'earth'. Know about resuscitation procedures - see notices displayed in every lab.

- Mains operated equipment including 5V power supplies, desk lamps etc.: Safety depends on correct wiring of plug, good quality cable, right fuse, proper earthing. "Tingly feelings" in fingers when touching equipment indicates that it is not earthed properly. Report defects to demonstrators or lab technicians - do not leave it for someone else.

- High voltage capacitor banks are very dangerous. Lethal charge is stored long after power supply is switched off if a fault occurs in protection circuits. Safety depends on good insulation and safety checks before alteration or maintenance (forbidden to students).
- Any high voltage equipment. "Tracking" occurs across the surface of insulators; high voltage can then appear at unexpected places. Switch off power supply when altering circuit.
- Darkroom equipment - e.g. safety lights, driers etc. Dangerous because the darkroom is usually small, badly lit and wet (you are well earthed and hence at risk).

Materials and chemicals

- Many common chemicals and solvents are toxic - cancer an important risk, e.g. Benzene, Carbon Tetrachloride, Chloroform. Good ventilation important. Tap water is not necessarily drinking water.
- Many solvents are inflammable - especially Benzene.
- Do not tip solvents down sink unless it is certain they will do no harm.
- Unless you have good knowledge of chemistry, do not mix chemicals without first getting expert advice.
- Alkali metals (e.g. sodium, potassium) react explosively with water.
- Mercury fumes are poisonous. If mercury gets spilled, inform demonstrator.
- Liquid nitrogen is cold but causes burns. Make sure it cannot splash into your eyes or onto your clothing.
- Asbestos fibres can lodge in lungs – causes cancer years later. Be cautious with asbestos and seek advice (there shouldn't be any asbestos in the lab).
- Many chemicals can cause dermatitis or other skin ailments (some people more susceptible than others). Keep your hands away from chemicals (gloves available if needed). Wash your hands if they should come into contact with chemicals of any sort.
- In general - do not eat in labs. Wash hands after leaving lab and before eating. Label all containers of chemicals and never use lemonade or similar bottles to store chemicals in.

Machinery

- In lab, rotary pumps have powerful electric motor with a drive belt. The belt guard is not infallible protection against long hair or a tie being caught up in the belt. Fans on diffusion pumps are also a hazard
- In machine shop - get expert advice. You should not use machines without supervision.

Gas Cylinders

Contain gas at high pressure (~ 200 atmospheres). If a cylinder topples over, the danger results from its large weight and from the possibility that the cylinder neck may fracture (ejecting the valve). Gas cylinders should be secured to wall. Two valves to operate - get advice from demonstrator the first time you use one.

"Common" accidents, e.g. falling down stairs, tripping over obstacles etc. Keep passageways clear of obstacles (e.g. bench stools, books, unused equipment) - especially in darkened labs. No horseplay in labs.

Radioactive or X-ray sources are covered by special rules. They must not be used without an approved scheme of work signed by the Department Radiation Protection Advisor.

Lasers are divided into classes:

1	Harmless
2 or 3R	Low power but precautions needed
3B	Medium power - severe eye damage possible
4	Severe eye and skin damage possible

Before using any laser other than a class 1 you must have permission from your Supervisor who will arrange for an approved scheme of work countersigned by the Departmental Radiation Supervisor. For students who take a project including lasers you will have to attend the departments laser safety training

Finally, your first accident may be one we have not thought of yet. So be careful.

All activities in your project need a written risk assessment and potentially a method of work. These need to be signed by the student. Ask your supervisor about it.

Our best wishes for your studies during this academic year, 2025/2026. We welcome you and hope that you will enjoy your time with us. We cannot hope to make a degree in physics easy: it would not be worthwhile if it was, and it takes many years of hard work - but we will do all we can to make it an enjoyable experience, and to provide you with the facilities to make your studying as effective as possible.

We believe the information provided in this handbook is correct at the date of publishing but may be subject to revision.

N.B. THIS HANDBOOK CAN BE SUPPLIED IN A VARIETY OF FORMATS TO SUIT YOUR NEEDS. PLEASE CONTACT THE DEPARTMENT FOR MORE INFORMATION

APPENDIX 1 – Degree Regulations

These Regulations are correct at the time of publication but you are advised to check [Academic regulations Physics](#) for any changes.

Individual programme regulations should be read in conjunction with the [General Regulations for Undergraduate & Integrated Masters Awards](#) and [General Regulations for Graduate and Postgraduate Awards](#)

- [Advanced Physics](#)
- [Applied Physics](#)
- [Industrial Photonics](#)
- [Nanoscience](#)
- [Photonics](#)
- [Quantum Technologies](#)

The options for course selection are detailed in the regulations. The default courses for MSc students are denoted by PH9xx. These are all at “level 5”, i.e. Masters level. Some are shared with level 5 courses from our integrated masters (MPhys) program (PH5xx) or from our BSc program (PH4xx). In the latter case they are bearing additional assignments to bring them to level 5 (see appendix 4) and carry PH9xx codes. Some MPhys modules (PH510, PH560, PH562) bear no equivalent MSc code but can still be taken.

Students on the Nanoscience course have a pre-described curriculum with the only selection between the physics (PH954) or chemistry (CH106) conversion course depending on background, and the option to choose either PH956 Advanced Nanoscience 2 or PH968 Experimental Laboratories.

Students on the Quantum Technology programme need to select two modules from PH955 Advanced Nanoscience 1, PH459 Topics in Atomic, Molecular and Nuclear Physics or PH968 Experimental Laboratories.

Students on the courses Advanced Physics, Photonics, and Applied Physics can choose optional modules from the selection in the regulations.

You are allowed to take 20 credits which are not level 5. Typically, this will be level 4 courses, in particular EE473 for Optical Technologies/ Applied Physics or PH459 for Quantum Technologies. If a postgraduate level 5 version of a class exists (like for the semester 1 PH4xx modules), you must choose this one. If you make a case to your adviser of study why a particular module PH4xx module is important to follow your ambitions, you can take one of the following semester 2 modules, if timetabling is compatible with the curriculum of your other MSc modules. Due to the uncertainty on semester 2 timetabling, you must choose PH9xx, PH5xx modules now and you can replace then one with a PH4xx module in the January Adviser of Study (AoS) Meeting. These are

PH421 Applied High Performance Computing
PH423 Complex and Nonlinear Systems
PH452 Topics in Physics
PH459 Topics in Atomic, Molecular and Nuclear Physics

Further remarks:

- Normally you will take 60 credits in each semester, i.e. 3 modules in semester 1 and 3 modules in semester 2. EE473 runs over the whole year and will disrupt this scheme of equal load.

- **All lecture based modules at level 5 (PH9xx, PH5xx) in semester 2 are scheduled that they do not overlap and hence enable maximal choice to cater for a broad range of student interest.**
- **However, PH968** “Experimental Laboratories” also runs in semester 2 and its main schedule are laboratories with a significant contact time and hence we cannot avoid overlap with other courses. The timetable is set to avoid overlaps with the most popular choices. You need to check the timetabling.
- PH967 Computational Physics is still in the regulations of some programmes but we do not offer it. Basic Python training is now part of PH949 and advanced students with interest in computational physics can take PH421 or PH501.
- Students with a BSc from a British or other high ranking university might have already the skills taught in the transferable skills class **PH949** “Physics Skills”, which is a selection of relevant transferable skills and an introduction to the programming language Python and computational physics. In that case we can recognize this as prior learning and exempt you from PH949, or possibly only from the Python part. If you are interested in that option, please prepare documentation to support this prior learning for the Adviser of Study Meetings in the development week, e.g. transcript showing course(s) and results and a downloaded description (or link to a description) or evidence of relevant assessment you submitted for these courses. You will also need to do the [Cyber Security Module](#) and [Sustainability Module](#) in your own time. There is an alternative transferable skills module PH551 developed for the MPhys and MRes you can take instead of PH949 of a “technical/physics” module if you have interested in science management and communication. However, this year it is only compatible with EE473 and PH962.

Specific notes on **Photonics**:

- Compulsory modules: PH949, PH957 (sem 1), PH963 (sem 2)
- You can take allowed combination of three level 5 (9xx or 5xx) classes, timetable permitting (or two level 5 plus one level 4, EE473 (sem 1+2) or PH4xx (sem 2))
- You can choose EE473 in sem 1 but it runs over two semesters and will lead to an overfull curriculum either in sem 1 or 2 and might constrain the choice of sem 2 modules. You can see from the provisional semester 2 curriculum with what modules it overlaps in sem 2. There might be however last minute changes required till start of sem 2. Typically, there were no issues and we will make sure that it does not overlap with the compulsory PH963.
- PH958 Optical Design is not running this year.
- EE972 Control Principles is in the regulations but historically interest has been always extremely low and we do not offer it explicitly any more. If you have strong interest, contact your AoS.
- Typical choice for “core” photonics
 - Sem 1: PH962 and/or EE473
 - Sem 2: selection from PH955, PH968, PH956, EE473
- Choice for focus on photonics in life and nano sciences
 - Sem 1: PH953
 - Sem 2: PH955 plus one out of PH956, PH968
- If you have interest in quantum optics and quantum technologies, you can take PH913 or PH913 in sem 2. You will need however some theoretical background.
- Another module of potential interest is PH960 “Advanced Topics in Photonics” which runs as “Advanced Topics in Physics” on MPhys level. The course provides an introduction to applications of ultra-high intensity laser in laser-plasma interaction and laser-based acceleration. It is taught by both experimental and theoretical lecturers and demands some mathematical skills and either some prior knowledge of basic plasma physics (as taught in PH452) or the willingness to acquire it in self-study.

Specific notes on **MSc Applied Physics**:

- Only compulsory module: PH949
- Any combination of five level 5 (9xx or 5xx) classes (or four level 5 plus one level 4, EE473 (sem 1+2) or PH4xx (sem 2) with relevance for applied physics and timetable permitting
- You can choose EE473 in sem 1 but it runs over two semesters and will lead to an overfull curriculum either in sem 1 or 2 and might constrain the choice of sem 2 modules. You can see from the provisional semester 2 curriculum with what modules it overlaps in sem 2. There might be however last minute changes required till start of sem 2. Typically, there were no issues for the typical choices.
- PH958 Optical Design is not running this year.
- EE972 Control Principles is in the regulations but historically interest has been always extremely low and we do not offer it explicitly any more. If you have strong interest, contact your AoS.
- Typical choice with focus on nanoscience and solid-state physics
 - Sem 1: PH953 and PH962
 - Sem 2: three out of PH955, PH956, PH963, PH968
- Choice with focus on optics and photonics
 - Sem 1: PH957 and PH962 and/or EE473
 - Sem 2: selection from PH955, PH956, PH963, PH968, EE473
- Choice with focus on plasma physics
 - Sem 1: PH957 and one of PH953, PH962, PH551
 - Sem 2: PH560, PH960, selection from PH452, PH968, PH955
- PH452 is an interesting semester 2 option for Applied Physics, if you did not take EE473 already. If you are computationally interested and have the appropriate background, also PH421 is an option.

Specific notes on **MSc Advanced Physics**:

- Only compulsory module: PH949
- Any combination of five level 5 (9xx or 5xx) classes (or four level 5 plus one level 4, PH4xx (sem 2), timetable permitting. You are free to mix for a broad education but typically students focus on areas of interest.
- Choice with focus on theoretical physics
 - Sem 1: PH988 and PH551 or another module
 - Sem 2: selection from PH913, PH960, PH457, PH423, PH510
- Choice with focus on nanoscience and solid-state physics
 - Sem 1: PH953 and PH962
 - Sem 2: PH955, PH956, PH968
- Choice with focus on optics and photonics
 - Sem 1: PH957 and PH962
 - Sem 2: selection from PH955, PH956, PH963, PH968
- Choice with focus on plasma physics
 - Sem 1: PH957 and one of PH953, PH962, PH551
 - Sem 2: PH560, PH960, selection from PH452, PH968, PH955, PH510
- Choice with focus on quantum physics
 - Sem 1: PH988, PH957
 - Sem 2: selection from PH913, PH955, PH956, PH968, PH459
- PH421, PH452, PH459, PH423 are potentially interesting semester 2 options for modules broadening your training.

APPENDIX 2 - PROGRAMME SPECIFICATIONS

Postgraduate Taught Class Options

PH949	Physics Skills (20)
PH952	Project (60)
PH913	Advanced Topics in Quantum Physics - Quantum Technologies (taught with PH504)
PH953	Introductory Nanoscience (20) (taught with PH454)
PH954	Physics Conversion Course (20) (elements shared with condensed matter physics PH386, and the waves and optics part of PH283)
PH955	Advanced Nanoscience 1: Imaging and Microscopy (20) (taught with PH554)
PH956	Advanced Nanoscience 2: Solid State Nanoscience (20) (taught with PH553)
PH957	Topics in Photonics: Laser and Nonlinear Optics (20) (taught with PH455)
PH960	Advanced Topics in Photonics: Ultrafast laser-plasma interaction and laser-based particle acceleration (20) (taught with PH552)
PH962	Photonics Materials and Devices (20) (taught with PH453 Topics in Solid State Physics)

PH963	Advanced Photonics Devices (20)
PH968	Experimental Laboratories (20)
PH988	Topics in Quantum Physics (20) (taught with PH422)
CH106	Chemistry Conversion Course (20) (for Nanoscience students with physics background)
CH927	Nanoscience 3: Nanochemistry
EE473	Optical Communication (Photonic Systems)
PH560	Advanced Topics In Electromagnetism And Plasma Physics (20)
PH551	Research Skills (20)
PH510	Advanced Computational Physics (20)
PH562	Advanced Topics in Quantum Optics (20)
PH421	Applied High Performance Computing (20)
PH423	Topics in Complex and Nonlinear Systems (20)
PH452	Topics in Physics (20)

PH459

[Topics in Atomic, Molecular and Nuclear Physics](#) (20)

Please note: The class descriptors are a description of course content which might be slightly outdated. The staff listed on the Class Descriptors may not be the class lecturer. Also, the content and assessment details may vary as well. You will get up-to-date information for your class in a class information sheet at the beginning of the teaching period.

APPENDIX 3 – John Anderson Campus Building Codes

Below is a list of buildings with their timetabling room prefix. Click the building name to view a *map* showing its location on campus where you can also view building's *floorplans*.

Prefix	Building Name	Notes
AB	Robertson Wing	SIPBS
AL	181 St James Road (Estates)	
AQ	Lord Todd Building	
AT	Alexander Turnbull Building	
BH	Barony Hall	
CL	Collins Building	
CU	Curran Building (Library)	
CW	Cathedral Street Wing (Business School)	
DW	Sir William Duncan Wing	
GH	Graham Hills Building	
HD	Henry Dyer Building	
HL	Kelvin Hydrodynamics Laboratory	
HW	Hamnett Wing	SIPBS
JA	John Anderson Building	
JW	James Weir Building	
LH	Lord Hope Building	
LT	Livingstone Tower	
MC	McCance Building	
RC	Royal College Building	Assembly hall is on level 4
SH	Strathclyde Sport	
SP	St Pauls Chaplaincy Centre	
SW	Stenhouse Wing (Business School)	
TC	Technology Innovation Centre	
TG	Thomas Graham Building	
TL	Teaching and Learning Building	
UC	University Centre	
WC	Wolfson Centre	

APPENDIX 4 – Project Arrangements and Key Assessment Dates

PH952 (project): The project is worth 60 credits and is assessed via a report, a viva (oral examination of about 35 minutes), a talk (12 minutes + 3 minutes discussion) and an assessment of your supervisor on your engagement and achievements. The projects are supervised by a first supervisor, with support by a second supervisor to provide additional expertise where necessary and to cover for absences. Details are on the [MyPlace site for PH952](#). You will get an insight in potential project areas via the presentation of the research group leaders in the PH952 sessions over semester 1. MSc students should start towards the end of semester 1 to **actively** search for project opportunities via the websites, research literature and the courses offered by the participating departments. They should actively address potential supervisors in areas they find interesting to define a potential project. Students (and that is the majority) who do not negotiate a bespoke project with a supervisor will be able to indicate their preferences from a booklet with a list of projects offered. The process will be explained in more detail during meetings in semester 1 and beginning of semester 2. The choice of modules in semester 2 should be suitable to prepare for the research field the student aspires to do the project in. Projects will be assigned middle/end of semester 2. For questions, please contact Prof Ackemann.

Anticipated key dates TBC

Project start: 20/05/2026

Project report hand-in: 13/08/2026

Project assessment: 18/08-28/08/2026 (note that due to staff availability or extensions granted for personal circumstances, some assessment might need to take place later)

Major PGT assessment hand-in deadlines

The semester 1 modules are typically modules on final year BSc level (level 4) which are brought to MSc level (level 5) by additional assignments. These will be oral examination (“vivas”) taking place in the development week of semester 2: 12 January 2026 - 16 January 2026. In PH954 you might be asked to prepare and give a presentation before your viva. The viva will provide the opportunity to demonstrate understanding of the module contents and learning outcomes in a different way from solving exam questions. It will be a benevolent conversation on elements of contents and connections within the module.

APPENDIX 5 – Support

The University provides a huge variety of opportunities for support. **Use these** and use them early to improve your skills, in particular IT or English language.

1. Navigating academics successfully - Good study habits, how to properly ask questions, time management, support for English, math skills, academic writing: [Academic support](#)
2. In sessional English courses, in particular academic writing.

[In-Sessional General English and English for Academic Purposes 2025-2026](#)

Students on main degree courses paying overseas fees for a full year are entitled to 4 hours per week of English (equivalent to two different courses per week) **FREE** throughout the academic year. We also offer 2 hours per week of **FREE** In-sessional classes (equivalent to one course per week) to exchange students and remote learning/online learning students. Spouses of students, visiting scholars, research assistants, and international students taking additional classes over and above the 4 hours per week are also welcome to attend for a small fee (£50 per 5-week course). This year we are offering both **ONLINE** and **ON CAMPUS** In-sessional courses.

Information about In-sessional courses and links to self-study materials can also be found on *Myplace*, the University's virtual learning environment. After you log in to *Myplace*, type the class code 'ELT13,1: In-sessional' into the 'find a class' search box and click on the highlighted code. This will take you to the In-sessional course page.

Please use this opportunity to train your English! It will help you to excel in your course.

3. [IT Services](#) and [Library & IT help](#)
4. [University licensed software.](#)
5. How Strathclyde works - Information on campus life and student support: [Strathlife student pages.](#)
6. MyPlace [PH952 Project](#)
7. MyPlace [Physics Personal Development](#)
8. [Postgraduate Career Module](#)
9. [International arrival checklist](#)
10. How to secure [accommodation](#)
11. How to secure finances - Registering a bank account, using digital banks such as Monzo, Revolut, converting currency etc. [Opening a bank account](#)
12. [Student Union](#) and [Student Union Advice Hub](#)
13. How to take advantage of being a student - Student discounts, [part-time job opportunities](#)
14. [Library Services](#)